

FOR OFFICIAL USE.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

JANUARY 1917.

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REPORT.

During the month of January 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the 1911 Census had populations of over 30,000, the births of 4533 living children, of whom 2298 were male and 2235 female. The male children of the month are 193 more than in the previous month, but 63 fewer than in January of last year. The female children are 200 more than in the previous month, but 101 fewer than in January of last year. The total births registered during the month are 393 more than in the previous month, 245 more than the mean of the numbers for the three preceding months, but 164 fewer than in January of last year. The equivalent annual birth-rate is 22.2 per thousand of the estimated aggregate population of these towns. This rate is 1.6 above that for the previous month, and 0.6 above the mean of the rates for the three preceding months, but is 1.3 below that for January of last year. In the towns taken individually this rate ranged from 30.5 in Clydebank, 27.5 in Greenock, and 27.4 in Coatbridge, to 14.7 in Kirkcaldy, 16.3 in Perth, and 16.1 in Edinburgh. In Hamilton it was 25.6 ; in Motherwell 25.2 ; in Glasgow, 24.6 ; in Paisley, 23.2 ; in Kilmarnock, 20.4 ; in Falkirk, 20.0 ; in Ayr, 19.9 ; in Dundee, 19.8 ; in Aberdeen, 19.3 ; and in Leith, 18.5.

Of the 4533 children whose births were registered, 4209, or 92.9 per cent., were legitimate, and 324, or 7.1 per cent., were illegitimate. The illegitimate children are 28 fewer than in the previous month, and 22 fewer than the mean of the numbers for the three preceding months, but are 9 more than in January of last year. The illegitimate rate for the month is 1.4 below that for the previous month, and 1.0 below the mean of the rates for the three preceding months, but is 0.4 above that for January of last year. In the towns taken individually this rate ranged from 13.6 in Aberdeen, 11.7 in Edinburgh, and 10.7 in Ayr, to 1.9 in Coatbridge, 2.0 in Kirkcaldy, and 2.2 in Greenock. In Dundee it was 8.4 ; in Glasgow and in Falkirk, 6.9 ; in Perth, 6.1 ; in Paisley, 5.6 ; in Kilmarnock, 4.7 ; in Motherwell, 4.4 ; in Hamilton, 3.6 ; in Leith, 3.1 ; and in Clydebank, 2.5.

Marriages registered during the month numbered 2144. They are 340 more than in the previous month, and 652 more than the mean of the numbers for the three preceding months, but are 329 fewer than in January of last year. The equivalent annual marriage-rate is 10.5 per thousand. It is 1.5 above that for

the previous month, and 3·0 above the mean of the rates for the three preceding months, but is 1·9 below that for January of last year. In the towns taken individually this rate ranged from 12·2 in Edinburgh, 12·0 in Perth, and 11·5 in Glasgow, to 5·7 in Ayr, 6·7 in Hamilton, and 7·4 in Greenock. In Coatbridge it was 10·1; in Dundee and in Leith, 9·7; in Kilmarnock, 9·5; in Falkirk, 8·6; in Paisley, 8·5; in Aberdeen and in Motherwell, 8·4; in Clydebank, 8·3; and in Kirkcaldy, 8·1.

Deaths registered in these towns numbered 3819, of which 1927 were male, and 1892 female. These deaths include those of 289 persons with usual residence outwith the town of registration, but exclude those of 213 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 76, falls to be deducted to get the corrected number for the month, which is thus found to be 3743. This number is 300 more than in the previous month, 748 more than the mean of the numbers for the three preceding months, and 841 more than in January of last year.

The death-rate for the month, corrected, is 18·3 per thousand. It is 1·2 above that for the previous month, 3·3 above the mean of the rates for the three preceding months, and 3·8 above that for January of last year. In the towns taken individually this rate ranged from 23·1 in Ayr, 21·6 in Dundee, and 21·0 in Perth, to 12·9 in Clydebank, 14·6 in Motherwell, and 16·1 in Kirkcaldy. In Kilmarnock it was 20·7; in Leith, 20·0; in Aberdeen, 19·4; in Greenock, 19·2; in Falkirk, 18·6; in Glasgow, 18·1; in Edinburgh, 17·6; in Coatbridge, 17·3; in Hamilton, 16·5; and in Paisley, 16·2.

Deaths of children of less than one year old numbered 611. They are 37 more than in the previous month, 79 more than the mean of the numbers for the three preceding months, and 140 more than in January of last year. They are equal to an infantile mortality rate of 129 per thousand of the average number of births registered monthly during the preceding twelve months. This rate is 7 more than in the previous month, 15 more than the mean of the rates for the three preceding months, and 31 more than that for January of last year. In the towns taken individually this rate ranged from 258 in Aberdeen, 214 in Perth, and 170 in Dundee, to 38 in Motherwell, 88 in Hamilton, and 90 in Clydebank. In Ayr it was 161; in Falkirk, 154; in Leith, 123; in Glasgow and in Kilmarnock, 120; in Paisley, 118; in Coatbridge, 113; in Edinburgh, 109; in Kirkcaldy, 103; and in Greenock, 99.

Deaths from the principal epidemic diseases numbered 237, and included 2 from enteric fever, 79 from measles, 6 from scarlet fever, 51 from whooping-cough, 41 from diphtheria, and 58 from the diarrhoeas of childhood. These deaths collectively are 54 more than in the previous month, and 9 more than the mean of the numbers for the three preceding months, but are 29 fewer than those for January of last year. The monthly death-rate from these causes was 1·2 per thousand. It is 0·3 above that for the previous month, 0·1 above the mean of the rates for the three preceding months, but 0·1 below that for January of last year. This rate ranged from 4·2 in Dundee, where measles was prevalent, 3·5 in Falkirk, and 2·7 in Perth, where measles was also prevalent, to 0 in Clydebank, 0·4 in Greenock, and 0·5 in Edinburgh. In Glasgow this rate was 0·9, and in Aberdeen, 1·1.

Deaths from pneumonia numbered 457, and from bronchitis 405. The former are 42 more than in the previous month, but the latter are 4 fewer.

Deaths from all forms of tuberculous disease numbered 401, 282 of these being attributed to phthisis. The total deaths from tuberculous diseases are 59 more than in the previous month, and 54 more than in January of last year. Those from phthisis are 37 more than in the previous month, and 47 more than in January of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
Meteorological Society.

JANUARY 1917.

Mean barometric pressure, 29·959 in.; greater than the average of 1881–1915 by 0·091 in.

Mean temperature, 36°·1; less by 2°·0.

Mean daily range of temperature, 5°·6; less by 3°·3.

Rain, number of days, 16; less by 2 days.

Rain, depth in inches, 2·07; less by 0·97 in.

Wind, direction of: a 10 days' excess of winds from N. or from between N.E. and S.E.

Hence the month was characterised by a high mean pressure; an extremely low mean temperature, with an abnormally low mean daily range; a low mean rainfall; and an abnormal excess of northerly and easterly winds.

The mean pressure was 29·959 in., or 0·091 in. above the normal. Conditions were for a time very changeable but by 15th a high pressure system had developed over Scandinavia and this in conjunction with depressions further south dominated conditions over our Islands until the end of the month. At Leith, at sea-level, pressure was above 30 in. on 5th and from 18th to 31st, and the extremes there were 30·51 in. on 23rd, and 29·24 in. on 8th.

The very mild south-westerly type of weather which had marked the closing days of 1916 continued during the first three days of January 1917; but on 4th a prolonged spell of wintry weather set in with winds at first from north and then from north-east or east. Judged by its mean temperature the month proved the coldest January since 1897, though it was closely approached in 1910. The night temperatures were not specially low, though there were sharp falls on 6th, 10th, 23rd, and 30th—as low as 11° at Bangour on 10th. The days, however, were persistently cold—colder on the average than in any January since 1895—and during the last three weeks of the month the extreme variations in temperature at most places were very slight. Thus at Edinburgh between 13th and 31st, temperature did not rise above 37° or fall below 29°. During the last ten days of the month when conditions were most rigorous it was on the whole colder in England than in Scotland. As regards the chief towns, the mean temperature was 36°·1, or 2°·0 below the normal, as compared with 35°·2 in 1897 and 36°·4 in 1910; the days were 3°·7 and the nights 0°·4 below their respective averages; the mean daily range was much the smallest on record; and the extremes were 53° at Greenock on 2nd, and at Perth on 3rd, and 22° at Perth on 5th.

There were some heavy falls of rain from 1st to 3rd, with a three days' aggregate at Glenquoich of fully 5½ in. whilst considerable precipitation more or less widely from 4th to 10th or 11th, and on the Borders and in hilly districts on some later days, was mainly in the form of snow. At many places practically no precipitation occurred after 10th or 12th, and in most districts practically none from about 15th onwards. In some eastern and central districts, however, there were various further moderate falls of snow. In extreme north-east and south-east aggregates were appreciably above the normal, but over wide areas there was a decided shortage—and Paisley, Perth and Greenock had only about half the normal. For the chief towns the mean rainfall was 2·07 in., or 32 per cent. below the normal.

Early in the month there was much stormy and squally weather, whilst later the persistent easterly winds were as a rule of moderate force. There were in many districts severe snowstorms between 5th and 9th; around 13th and 14th; and in hilly districts on one or two later days. In some districts snow lay continuously from about 5th to the end of the month.

A fair amount of sunshine was experienced in the west, but in east conditions were in general very gloomy. At Edinburgh the aggregate sunshine from 15th to 31st was less than 1 hour, and at Marchmont in Berwickshire, the month was much the cloudiest January for at least 35 years.

A bright aurora was widely observed on 4th.

NOTE.—For meteorological table see p. 8.

Abstract.

TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, JANUARY 1917.

TOWNS.	POPULATION.		BIRTHS.						DEATHS.					
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	MARRIAGES.	Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW,	1,008,487	1,115,800	1210	1118	2328	2167	161	1090	907	850	1757	118	77	1716
EDINBURGH,	320,769	331,800	217	237	454	401	53	343	244	294	538	75	34	497
DUNDEE,	176,085	184,300	142	168	310	284	26	152	166	174	340	11	9	338
ABERDEEN,	163,891	165,700	126	146	272	235	37	118	128	157	285	19	7	273
PAISLEY,	84,455	89,700	92	85	177	167	10	65	74	53	127	6	5	123
LEITH,	80,601	82,800	65	65	130	126	4	68	52	64	116	8	33	141
GREENOCK,	75,140	79,600	108	78	186	182	4	50	79	52	131	8	7	130
PERTH,	35,854	35,400	21	28	49	46	3	36	39	37	76	14	1	63
TOTAL . (EIGHT TOWNS)	1,945,282	2,085,100	1981	1925	3906	3608	298	1922	1689	1681	3370	262	173	3281
COATBRIDGE,	43,290	44,300	55	48	103	101	2	38	36	25	61	0	4	65
MOTHERWELL	40,380	42,000	43	47	90	86	4	30	24	28	52	0	0	52
KIRKCALDY	39,601	40,900	27	24	51	50	1	28	29	20	49	1	8	56
HAMILTON,	38,644	38,600	41	43	84	81	3	22	25	26	51	4	7	54
CLYDEBANK,	37,548	46,700	56	65	121	118	3	33	25	14	39	0	12	51
KILMARNOCK,	34,728	37,000	37	27	64	61	3	30	35	33	68	5	2	65
FALKIRK,	33,574	34,100	28	30	58	54	4	25	28	30	58	6	2	54
AYR,	32,986	33,100	30	26	56	50	6	16	36	35	71	11	5	65
TOTAL . (SIXTEEN TOWNS)	2,246,033	2,401,800	2293	2235	4533	4209	324	2144	1927	1892	3819	289	213	3743

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, JANUARY 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 of POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.	
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.	Number.	* Rate per 1000 Births.
				Uncor- rected.	Cor- rected.						
GLASGOW,	24.6	6.9	11.5	18.5	18.1	0.9	2.1	1.5	4.9	291	120
EDINBURGH,	16.1	11.7	12.2	19.1	17.6	0.5	1.7	1.3	3.7	56	109
DUNDEE,	19.8	8.4	9.7	21.7	21.6	4.2	1.9	1.3	5.6	55	170
ABERDEEN,	19.3	13.6	8.4	20.2	19.4	1.1	1.8	1.3	5.6	79	258
PAISLEY,	23.2	5.6	8.5	16.7	16.2	0.7	1.7	0.9	3.9	20	118
LEITH,	18.5	3.1	9.7	16.5	20.0	1.7	1.7	1.3	4.5	19	123
GREENOCK,	27.5	2.2	7.4	19.4	19.2	0.4	3.1	1.8	3.4	19	99
PERTH,	16.3	6.1	12.0	25.3	21.0	2.7	2.0	1.3	4.0	12	214
TOTAL . (EIGHT TOWNS)	22.1	7.6	10.9	19.0	18.5	1.2	2.0	1.4	4.7	541	133
COATBRIDGE,	27.4	1.9	10.1	16.2	17.3	1.1	2.1	1.1	3.7	12	113
MOTHERWELL,	25.2	4.4	8.4	14.6	14.6	0.8	1.7	1.1	3.6	4	38
KIRKCALDY,	14.7	2.0	8.1	14.1	16.1	0.9	1.4	1.4	2.9	7	103
HAMILTON,	25.6	3.6	6.7	15.5	16.5	1.5	1.2	1.2	4.6	8	88
CLYDEBANK,	30.5	2.5	8.3	9.8	12.9	0.0	2.0	1.0	1.8	10	90
KILMARNOCK,	20.4	4.7	9.5	21.6	20.7	1.0	1.6	0.0	4.5	9	120
FALKIRK,	20.0	6.9	8.6	20.0	18.6	3.5	3.1	2.4	4.8	10	154
AYR,	19.9	10.7	5.7	25.2	23.1	1.1	2.5	1.1	3.9	10	161
TOTAL . (SIXTEEN TOWNS)	22.2	7.1	10.5	18.7	18.3	1.2	2.0	1.4	4.5	611	129

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR JANUARY 1917, AND FOR THE CORRESPONDING MONTH OF THE PRECEDING TEN YEARS, IN THE PRINCIPAL TOWNS.

MONTH.	Birth-Rate (2)	Illegitimate Birth-rate per 100 Births. (3)	Marriage-Rate. (4)	Death-Rate. (5)	DEATHS FROM								* Infantile Mortality Rate. (13)	Mean Temperature (Eight Towns only). (14)
					Enteric Fever. (6)	Smallpox. (7)	Measles. (8)	Scarlet Fever. (9)	Whooping-Cough. (10)	Diphtheria and Croup. (11)	Diarrhoea (Under 2 Years). (12)			
(1)														
JAN. 1917,	22.2	7.1	10.5	18.3	2	0	79	6	51	41	58	129	36°.1	
JAN. 1916,	23.5	6.7	12.4	14.5	6	0	93	51	17	58	41	98	43°.8	
JAN. 1915,	25.6	6.8	11.4	21.4	12	0	32	53	261	53	49	151	37°.6	
JAN. 1914,	26.7	7.5	12.2	20.4	4	0	183	45	29	65	47	151	38°.7	
JAN. 1913,	28.1	7.2	10.8	18.9	8	0	13	22	174	46	49	133	37°.6	
JAN. 1912,	26.7	6.3	11.6	18.5	14	0	205	33	72	53	38	132	37°.5	
JAN. 1911,	25.9	8.1	11.0	17.4	12	0	7	21	78	42	47	119	39°.9	
JAN. 1910,	25.8	7.3	10.4	19.6	15	0	208	26	26	38	55	140	36°.4	
JAN. 1909,	28.1	7.3	10.2	19.4	9	0	5	19	147	39	50	138	39°.0	
JAN. 1908,	29.2	6.8	11.3	25.0	12	2	359	18	116	32	-	173	37°.8	
JAN. 1907,	29.1	7.8	10.8	22.1	18	0	33	12	88	32	-	140	38°.5	

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—January 1917.

CAUSES OF DEATH.	All Ages.	Age.											
		-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-	
Enteric Fever	2	-	-	-	-	-	-	1	-	1	-	-	-
Typhus Fever	1	-	-	-	-	-	-	-	-	1	-	-	-
Small-pox	-	-	-	-	-	-	-	-	-	-	-	-	-
Measles	79	16	56	6	1	-	-	-	-	-	-	-	-
Scarlet Fever	6	1	2	3	-	-	-	-	-	-	-	-	-
Whooping-cough	51	23	26	1	1	-	-	-	-	-	-	-	-
Diphtheria and Croup	41	3	27	9	1	-	-	-	-	1	-	-	-
Influenza	28	2	-	1	-	3	-	-	1	3	6	5	7
Erysipelas	9	2	1	-	1	2	-	-	1	-	1	1	1
Phthisis, Pulmonary Tuberculosis	282	2	8	6	5	52	68	61	50	21	9	-	-
Tuberculous Meningitis	40	15	11	8	3	1	1	1	-	-	-	-	-
Abdominal Tuberculosis	37	4	14	6	5	5	1	2	-	-	-	-	-
Other Tuberculous Diseases	42	3	7	6	3	8	1	3	3	5	1	2	2
Cancer, Malignant Disease	216	-	-	-	-	-	5	28	51	51	51	30	-
Rheumatic Fever	8	-	-	-	2	2	1	-	2	1	-	1	-
Meningitis	37	11	16	2	2	-	1	-	2	3	-	-	-
Organic Heart Disease	329	2	-	3	1	14	9	22	41	84	83	70	-
Bronchitis	405	73	27	-	1	6	6	13	31	72	82	94	-
Pneumonia (all forms)	457	120	103	8	4	16	13	23	42	48	47	33	-
Other Diseases of Respiratory Organs	66	12	9	2	1	2	3	6	8	4	11	8	-
Diarrhoea and Enteritis (under 2 years)	58	47	11	-	-	-	-	-	-	-	-	-	-
Appendicitis and Typhlitis	19	-	-	4	-	3	1	3	1	2	-	-	-
All Liver Diseases (not Malignant)	23	-	-	5	-	1	-	5	6	5	5	5	1
Other Diseases of Digestive System	126	17	11	6	-	6	8	8	17	25	15	13	-
Nephritis and Bright's Disease	134	3	-	6	2	3	6	12	27	37	28	10	-
Puerperal Sepsis	13	-	-	-	-	2	7	4	-	-	-	-	-
Other Diseases & Accidents of Pregnancy & Parturition	26	-	-	-	-	4	15	7	-	-	-	-	-
Congenital Debility and Malformation, including Premature Birth	180	175	2	-	2	-	1	-	-	-	-	-	-
Violent Deaths, excluding Suicide	157	12	15	14	5	8	10	20	26	17	17	13	-
Suicide	2	-	-	-	-	-	-	2	-	-	-	-	-
Other Defined Diseases	781	57	17	5	6	13	24	56	78	121	170	240	-
Diseases Ill-defined or Unknown	88	11	4	-	-	2	1	5	15	21	22	7	-
All Causes	3743	611	367	96	51	154	182	280	403	523	547	529	-

Causes of Death

DEATHS IN EACH TOWN (corrected for Transfers)—January 1917.

CAUSES OF DEATH.		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever		2	...	...	...	...	...	...	...
Typhus Fever		1	...	...	...	...	...	...	...
Small-pox ... ... ... ...		...	...	...	...	...	...	...	...
Measles		19	...	52	...	...	1	...	7
Scarlet Fever		3	...	...	1	1	8	...	...
Whooping-cough		26	4	...	1	3	3	1	1
Diphtheria and Croup		13	9	5	3	2	3	1	1
Influenza		7	10	...	3	2	...	...	...
Erysipelas		5	1	...	1	...	...	...	...
Phthisis, Pulmonary Tuberculosis		144	36	20	19	7	9	12	4
Tuberculous Meningitis		18	4	3	2	3	2	...	...
Abdominal Tuberculosis		16	2	4	2	1	...	4	1
Other Tuberculous Diseases		17	6	2	2	2	1	5	1
Cancer, Malignant Disease		99	30	19	16	10	5	4	4
Rheumatic Fever		3	1	...	1	...	...	1	...
Meningitis		17	2	3	...	2	1	4	1
Organic Heart Disease		126	52	31	25	10	15	17	7
Bronchitis		200	36	46	36	11	13	7	7
Pneumonia (all forms)		231	58	35	38	16	16	12	5
Other Diseases of Respiratory Organs ...		33	9	6	5	3	3	4	...
Diarrhoea and Enteritis (under 2 years)		21	1	8	10	1	...	2	...
Appendicitis and Typhlitis ...		10	6	1	...	1	...	...	...
All Liver Diseases (not Malignant) ...		9	5	3	4	...	...	2	...
Other Diseases of Digestive System ...		58	22	9	8	4	5	3	1
Nephritis and Bright's Disease ...		72	17	6	10	4	5	2	2
Puerperal Sepsis		5	3	1	...	...	...	...	1
Other Diseases and Accidents of Pregnancy and Parturition ...		8	3	2	4	2	1	...	1
Congenital Debility and Malformation, including Premature Birth ...		94	19	9	10	6	7	7	6
Violent Deaths, excluding Suicide ...		78	24	7	9	4	5	9	3
Suicide		1	...	...	...	...	...	1	...
Other Defined Diseases		328	132	63	61	26	40	27	11
Diseases Ill-defined or Unknown ...		52	5	3	2	4	1	6	...
All Causes ...		1716	497	338	273	123	141	130	63
AGE AT DEATH.									
Under 1		281	56	55	79	20	19	19	12
1-4		159	34	66	17	13	13	7	9
5-9		45	9	9	2	3	3	8	1
10-14		24	7	3	3	2	3	1	2
15-24		71	23	13	11	7	4	5	2
25-34		86	27	12	12	6	7	5	2
35-44		131	39	23	17	13	10	9	4
45-54		209	44	29	22	14	13	20	4
55-64		253	75	41	31	15	17	24	7
65-74		254	77	41	37	10	20	22	8
75 and over		203	106	46	42	20	32	10	12
All Ages ...		1716	497	338	273	123	141	130	63

DEATHS IN EACH TOWN (corrected for Transfers)—January 1917—continued.

CAUSES OF DEATH.		Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.
Enteric Fever		...	...	...	...	...	...	...	...
Typhus Fever		...	...	...	...	...	...	...	...
Small-pox		...	...	...	...	...	...	...	...
Measles		...	...	...	...	...	...	...	...
Scarlet Fever		...	...	1	...	1	...	...	...
Whooping-cough		...	1	1	...	1	...	6	2
Diphtheria and Croup		...	...	2	...	...	...	...	1
Influenza		...	2	4	...	...	...	...	...
Erysipelas		...	1	...	...	...	1	...	...
Phthisis, Pulmonary Tuberculosis		...	4	4	5	4	4	7	3
Tuberculous Meningitis		...	2	...	...	2	1	2	1
Abdominal Tuberculosis		...	1	1	...	1	2	...	2
Other Tuberculous Diseases		...	1	1	...	1	2	...	1
Cancer, Malignant Disease		...	1	4	1	2	4	8	2
Rheumatic Fever		...	...	...	...	...	...	2	...
Meningitis		...	1	2	...	...	1	...	3
Organic Heart Disease		...	9	5	8	8	3	3	7
Bronchitis		...	6	8	7	11	3	8	4
Pneumonia (all forms)		...	8	4	3	3	4	5	10
Other Diseases of Respiratory Organs		...	1	...	1	...	1	...	...
Diarrhoea and Enteritis (under 2 years)		3	1	1	3	...	3	4	...
Appendicitis and Typhlitis		...	...	...	...	1	...	...	...
All Liver Diseases (not Malignant)		...	...	...	...	...	...	...	...
Other Diseases of Digestive System		...	...	1	4	2	1	6	1
Nephritis and Bright's Disease		...	4	3	3	...	1	4	1
Puerperal Sepsis		...	1	1	...	1	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition		...	...	1	...	2	1	...	1
Congenital Debility and Malformation, including Premature Birth		...	4	1	2	4	4	3	4
Violent Deaths, excluding Suicide		...	2	...	5	1	5	1	3
Suicide		...	...	...	...	...	...	...	...
Other Defined Diseases		...	14	10	9	10	14	12	9
Diseases Ill-defined or Unknown		...	2	...	2	...	2	4	3
All Causes		...	65	52	56	54	51	65	54
All Ages		...	65	52	56	54	51	65	65
AGE AT DEATH.									
Under 1		...	12	4	7	8	10	9	10
1-4		...	9	3	4	4	6	7	9
5-9		...	2	1	4	1	1	1	4
10-14		...	1	1	1	2	...	1	...
15-24		...	1	2	...	4	3	4	2
25-34		...	5	5	1	6	4	1	2
35-44		...	4	3	4	4	6	2	5
45-54		...	11	1	5	8	5	5	6
55-64		...	6	17	4	8	2	13	5
65-74		...	10	9	14	5	7	13	8
75 and over		...	4	6	12	4	7	9	4
All Ages		...	65	52	56	54	51	65	65

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,
During the Month of JANUARY 1917.

OBSERVERS.	BARO-METER.		AIR TEMPERATURE.		HYGROMETER.		RAIN, AND OTHER FORMS OF PRECIPITATION.		WIND DIRECTIONS.							
			Absolute Maximum and Minimum.		Mean at 9 A.M. and 9 P.M.		Calm or Variable.		Number of Observations at 9 A.M. and 9 P.M.							
	Mean at Sea-Level and 32°.	Mean at Station and 32°.	Day of Month.	Minimum.	Dry Bulb.	Depression of Wet Bulb.	Humidity.	Total Fall.	N	NE	E	SE	S	SW	W	NW
GLASGOW, The Observatory.	feet.	inch.	•	•	•	•	•	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.
EDINBURGH, Professor R. A. SAMPSON, F.R.S., Royal Observatory.	184	29.746	29.954	39.2	34.2	36.7	-1.9	52	1, 2, 3	29	10, 30	36.1	1.8	1.79	1.91	-1.36
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	441	29.465	29.962	38.2	32.8	35.6	-2.5	52	1, 3	27	10th	35.0	1.4	1.76	1.76	0.00
ABERDEEN,* The Meteorological Office.	164	29.768	29.954	38.4	32.5	35.5	-1.6	52	3rd	26	6th	35.2	1.1	1.84	1.48	-0.47
PAISLEY, The Coats Observatory.	90	29.853	29.956	39.0	32.6	36.3	-1.6	51	1st	27	6th	36.2	1.1	1.93	1.93	2.96
LEITH,† JAMES BOLAM, Navigation School.	107	29.845	29.967	39.8	33.6	36.7	-2.4	52	1, 2, 3	26	30th	36.4	1.9	1.80	1.84	1.2
GREENOCK, DANIEL MACALISTER, C.E., Greenock Waterworks.	76	29.865	29.952	38.4	34.1	36.3	-2.8	52	2, 3	29	10th	36.5	1.3	1.91	1.92	+0.12
PERTH, HENRY COATES, F.R.S.E., The Museum.	233	29.698	29.969	39.2	34.3	36.8	-1.6	53	2nd	27	30th	36.5	1.8	1.83	1.84	3.19
Means	170	29.766	29.959	38.9	33.3	36.1	-2.0	..	..	..	..	35.9	1.4	1.84	1.87	0.97
North Latitude.—Glasgow, 55° 51'; Edinburgh, 56° 55'; Dundee, 57° 9'; Paisley, 55° 51'; Leith, 55° 58'; Greenock, 55° 57'; Perth, 56° 23'; Mean, 56° 11'.																
West Longitude.—Glasgow, 4° 18'; Edinburgh, 3° 57'; Dundee, 2° 27'; Aberdeen, 2° 18'; Paisley, 4° 27'; Leith, 3° 8'; Greenock, 4° 46'; Perth, 3° 25'; Mean, 3° 32'.																

* At King's College, at 7 A.M. and 6 P.M.
† At 9 A.M. only.

FOR OFFICIAL USE.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

FEBRUARY 1917.

Published by Authority of the Registrar-General.

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REPORT.

During the month of February 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the 1911 Census had populations of over 30,000, the births of 3875 living children, of whom 2017 were male and 1858 female. The male children are 281 fewer than in January, and 116 fewer than in February of last year. The female children are 377 fewer than in January, and 203 fewer than in February of last year. The total children are 658 fewer than in January, 387 fewer than the mean for the three preceding months, and 319 fewer than in February of last year. The equivalent annual birth-rate is 21·0 per thousand of the estimated aggregate population of these towns. This rate is 1·2 below that for January, 0·3 below the mean of the rates for the three preceding months, and 1·5 below that for February of last year. In the towns taken individually this rate ranged from 30·6 in Coatbridge, 28·7 in Hamilton, and 26·2 in Greenock, to 13·6 in Perth, 16·3 in Edinburgh, and 16·5 in Dundee. In Clydebank it was 24·0; in Motherwell, 23·9; in Glasgow, 23·1; in Paisley, 21·7; in Falkirk, 19·9; in Ayr, 19·3; in Kilmarnock, 18·7; in Aberdeen and in Kirkcaldy, 18·2; and in Leith, 17·2.

Of the 3875 children whose births were registered, 3541, or 91·4 per cent., were legitimate, and 334, or 8·6 per cent., were illegitimate. The illegitimate children are 10 more than in January, 8 more than the mean for the three preceding months, and 24 more than in February of last year. The illegitimate rate is 1·5 above that for January, 1·0 above the mean of the rates for the three preceding months, and 1·2 above that for February of last year. In the towns taken individually this rate ranged from 14·3 in Aberdeen, 14·0 in Kirkcaldy, and 10·6 in Edinburgh, to 3·5 in Clydebank, 3·8 in Kilmarnock, and 5·2 in Motherwell. In Dundee it was 9·0; in Glasgow, 8·6; in Falkirk, 7·7; in Greenock, 7·5; in Paisley, 7·4; in Ayr, 6·1; in Hamilton, 5·9; in Coatbridge, 5·8; in Leith, 5·5; and in Perth, 5·4.

Marriages registered during the month numbered 1174. They are 970 fewer than in January, 561 fewer than the mean for the three preceding months, and 329 fewer than in February of last year. The equivalent annual marriage-rate is 6·4

per thousand. It is 4·1 below that for January, 2·3 below the mean of the rates for the three preceding months, and 1·7 below that for February of last year. In the towns taken individually this rate ranged from 8·1 in Edinburgh, 7·5 in Ayr, and 7·0 in Kirkcaldy, to 2·3 in Falkirk, 3·8 in Paisley, and 3·9 in Clydebank. In Glasgow it was 6·8; in Greenock, 6·6; in Aberdeen, 6·4; in Leith and in Kilmarnock, 6·0; in Hamilton, 5·1; in Perth, 4·8; in Dundee, in Coatbridge, and in Motherwell, 4·7.

Deaths registered in these towns numbered 3522, of which 1745 were of males, and 1777 of females. These deaths include those of 269 persons with usual residence outwith the town of registration, but they exclude those of 220 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 49, falls to be deducted to get the corrected number of deaths for the month, which is thus found to be 3473. This number is 270 fewer than in January, but is 144 more than the mean for the three preceding months, and 543 more than in February of last year.

The death-rate for the month, corrected, is 18·8 per thousand. It is 0·5 above that for January, 2·2 above the mean of the rates for the three preceding months, and 3·1 above that for February of last year. In the towns taken individually this rate ranged from 25·4 in Kilmarnock, 23·2 in Dundee, and 23·0 in Leith, to 12·0 in Clydebank, 12·5 in Hamilton, and 13·0 in Motherwell. In Perth it was 22·1; in Edinburgh, 20·9; in Kirkcaldy, 18·8; in Glasgow, 18·6; in Greenock, 17·9; in Coatbridge, 17·4; in Falkirk, 17·2; in Aberdeen, 17·0; in Paisley, 14·7; and in Ayr, 13·8.

Deaths of children of less than one year old numbered 529. They are 82 fewer than in January, and 29 fewer than the mean for the three preceding months, but are 86 more than in February of last year. They are equal to an infantile mortality rate of 124 per thousand of the average number of births registered monthly during the preceding twelve months. This rate is 5 less than in January, but is 5 more than the mean of the rates for the three preceding months, and 24 more than that for February of last year. In the towns taken individually this rate ranged from 216 in Dundee, 209 in Kilmarnock, and 190 in Falkirk, to 71 in Hamilton, 73 in Ayr, and 80 in Greenock. In Kirkcaldy it was 180; in Leith, 130; in Glasgow and in Perth, 120; in Paisley, 118; in Edinburgh and in Motherwell, 117; in Aberdeen, 107; in Clydebank, 101; and in Coatbridge, 83.

Deaths from the principal epidemic diseases numbered 248, and included 5 from enteric fever, 71 from measles, 9 from scarlet fever, 106 from whooping-cough, 31 from diphtheria, and 26 from the diarrhoeas of childhood. These deaths collectively are 11 more than in January, and 38 more than the mean for the three preceding months, but are 33 fewer than in February of last year. The monthly death-rate from these causes was 1·3 per thousand. It is 0·1 above that for January, and 0·2 above the mean of the rates for the three preceding months, but is 0·2 below that for February of last year. This rate ranged from 3·1 in Falkirk and 2·4 in Leith, in both of which places whooping-cough was prevalent, and 2·0 in Dundee and in Hamilton, to 0·3 in Greenock and 0·4 in Aberdeen. In Glasgow this rate was 1·5, and in Edinburgh 1·4.

Deaths from pneumonia numbered 390, and from bronchitis 381. The former are 67 fewer than in January, and the latter 24 fewer.

Deaths from all forms of tuberculosis numbered 470, 334 of these being attributed to phthisis. The total deaths from tuberculous diseases are 69 more than in January, and 137 more than in February of last year. Those from phthisis are 52 more than in January, and 97 more than in February of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns, by A. WATT, M.A., F.R.S.E., Secretary to the Scottish Meteorological Society.

FEBRUARY 1917.

Mean barometric pressure, 30·110 in.; greater than the average of 1881–1915 by 0·267 in.

Mean temperature, 36°·5; less by 2°·1.

Mean daily range of temperature, 8°·9; less by 1°·2.

Rain, number of days, 10; less by 6 days.

Rain, depth in inches, 0·92; less by 1·76 in.

Wind, direction of: a 1 day's excess of winds from N.W.

Hence the month was characterised by an abnormally high mean pressure; an abnormally low mean temperature, with a low mean daily range; an abnormally low mean rainfall; and a wind distribution in close agreement with the normal.

The mean pressure of 30·110 in. was 0·267 in. above the normal, and the highest mean for February since 1896. Anticyclonic conditions were much in evidence; pressure fluctuations were seldom more than slight; and the most important variations occurred on 19th and 20th, when a depression spread westwards over our Islands. At Leith, at sea-level, pressure was above 30 in. on 1st, from 5th to 16th, on 18th, 19th, 22nd, and 24th, and from 26th to 28th, and the extremes there were 30·47 in. on 8th and 29·68 in. on 3rd.

The spell of wintry weather which had set in early in January lasted until February 17th, and in most districts reached its greatest intensity about 6th, when the thermometer in the "Stevenson Screen" fell to 2° at West Linton, to 3° at Braemar, and to 4° at Balmoral, with various readings in the open below zero. There were again some very low readings on 13th and 16th (6° at Braemar on each of these days). On 18th a thaw was general, and fairly mild conditions prevailed until the end of the month. As regards the chief towns, the mean temperature of 36°·5, or 2°·1 below the normal, was the lowest since 1902, though February 1906 was practically as cold (36°·6); the days were 2°·7 and the nights 1°·5 below their respective averages; and the extremes were 52° at Aberdeen on 27th and 12° at Perth on 13th. It is noteworthy that during the cold spell conditions were much more rigorous in England than in Scotland. On 6th a reading of 4°F. was registered in screen at Benson near Dorchester on Thames.

The month was an extremely dry one—at many places the driest February since 1895 or 1891; nearly the whole of Scotland had less than one-half, and considerable areas less than one-third or one-quarter of the normal; and there were numerous aggregates of less than 1 in. There were many days with no precipitation, and at many places falls exceeding 0·1 in. occurred on only two or three days. There were some falls of snow early in the month, and in some districts on 11th, but the only general rainfall of importance occurred on 20th, when Dundee had more than 1 in. During the last week there were trifling falls in west and south. For the chief towns the mean rainfall was 0·92 in., or 66 per cent. below the normal.

Wind force was very light for a winter month.

A severe snowstorm was widely experienced between 1st and 4th, and minor falls on 11th, and here and there on one or two other days. At Braemar snow lay on the ground continuously from 4th January to 27th February.

Considerable amounts of sunshine were experienced during the first half of the month and especially during the second week, but the period from 17th to 22nd was extremely gloomy; and thereafter amounts were only moderate.

A bright aurora was widely observed on 15th, and minor displays here and there on 4th, 14th and 19th.

NOTE.—For meteorological table see p. 16.

*Abstract.*TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, FEBRUARY 1917.

TOWNS.	POPULATION.		BIRTHS.					MARRIAGES.	DEATHS.					
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.		Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW, . .	1,008,487	1,115,800	1012	967	1979	1809	170	579	840	795	1635	104	59	1590
EDINBURGH, . .	320,769	331,800	222	192	414	370	44	206	266	302	568	90	53	531
DUNDEE, . .	176,085	184,300	122	111	233	212	21	67	148	184	332	8	4	328
ABERDEEN, . .	163,891	165,700	116	115	231	198	33	81	118	95	213	10	13	216
PAISLEY, . .	84,455	89,700	81	68	149	138	11	26	39	68	107	12	6	101
LEITH, . . .	80,601	82,800	58	51	109	103	6	38	51	58	109	3	40	146
GREENOCK, . .	75,140	79,600	83	77	160	148	12	40	63	53	116	8	1	109
PERTH, . . .	35,854	35,400	19	18	37	35	2	13	23	39	62	5	3	60
TOTAL . . (EIGHT TOWNS)	1,945,282	2,085,100	1713	1599	3312	3013	299	1050	1548	1594	3142	240	179	3081
COATBRIDGE, . .	43,290	44,300	56	48	104	98	6	16	34	27	61	4	2	59
MOTHERWELL . .	40,380	42,000	39	38	77	73	4	15	13	21	34	0	8	42
KIRKCALDY . .	39,601	40,900	33	24	57	49	8	22	27	27	54	1	6	59
HAMILTON, . .	38,644	38,600	48	37	85	80	5	15	14	17	31	2	8	37
CLYDEBANK, . .	37,548	46,700	45	41	86	83	3	14	20	15	35	0	8	43
KILMARNOCK, . .	34,728	37,000	24	29	53	51	2	17	39	30	69	3	6	72
FALKIRK, . . .	33,574	34,100	31	21	52	48	4	6	26	26	52	8	1	45
AYR, . . .	32,986	33,100	28	21	49	46	3	19	24	20	44	11	2	35
TOTAL . . (SIXTEEN TOWNS)	2,246,033	2,401,800	2017	1858	3875	3541	334	1174	1745	1777	3522	269	220	3473

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, FEBRUARY 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 of POPULATION FROM					DEATHS UNDER ONE YEAR OF AGE.		
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.		
				Uncor- rected.	Cor- rected.						
GLASGOW, . .	23·1	8·6	6·8	19·1	18·6	1·5	2·6	2·1	4·5	253	120
EDINBURGH, . .	16·3	10·6	8·1	22·3	20·9	1·4	2·3	1·3	4·8	54	117
DUNDEE, . .	16·5	9·0	4·7	23·5	23·2	2·0	2·8	1·8	6·1	62	216
ABERDEEN, . .	18·2	14·3	6·4	16·8	17·0	0·4	2·7	1·8	3·6	29	107
PAISLEY, . .	21·7	7·4	3·8	15·6	14·7	0·6	2·9	1·7	3·3	18	118
LEITH, . . .	17·2	5·5	6·0	17·2	23·0	2·4	3·1	2·0	3·8	18	130
GREENOCK, . .	26·2	7·5	6·6	19·0	17·9	0·3	2·1	1·8	3·6	14	80
PERTH, . . .	13·6	5·4	4·8	22·9	22·1	1·5	1·1	1·1	5·2	6	120
TOTAL . . (EIGHT TOWNS)	20·7	9·0	6·6	19·6	19·3	1·4	2·6	1·9	4·5	454	124
COATBRIDGE, . .	30·6	5·8	4·7	18·0	17·4	0·6	2·9	1·5	3·8	8	83
MOTHERWELL, .	23·9	5·2	4·7	10·5	13·0	0·6	0·9	0·6	4·3	11	117
KIRKCALDY, . .	18·2	14·0	7·0	17·2	18·8	0·6	1·3	1·0	5·7	11	180
HAMILTON, . .	28·7	5·9	5·1	10·5	12·5	2·0	2·7	2·0	3·0	6	71
CLYDEBANK, . .	24·0	3·5	3·9	9·8	12·0	0·6	2·2	1·7	2·5	10	101
KILMARNOCK, . .	18·7	3·8	6·0	24·3	25·4	1·4	2·8	2·1	7·4	14	209
FALKIRK, . . .	19·9	7·7	2·3	19·9	17·2	3·1	4·2	2·8	3·4	11	190
AYR, . . .	19·3	6·1	7·5	17·3	18·8	1·2	1·6	0·8	3·1	4	73
TOTAL . . (SIXTEEN TOWNS)	21·0	8·6	6·4	19·1	18·8	1·3	2·6	1·8	4·5	529	124

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR FEBRUARY 1917, and for the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL TOWNS.

MONTH.	Birth-Rate	DEATHS FROM												Mean Temperature (Eight Towns only.)
		Illegitimate Birth- rate per 100 Births.	Marriage-Rate.	Death-Rate.	Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping- Cough.	Diphtheria and Croup.	Diarrhoea (Under 2 Years).	* Infantile Mortality Rate.		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
FEB. 1917, .	21·0	8·6	6·4	18·8	5	0	71	9	106	31	26	124	36·5	
FEB. 1916, .	22·5	7·4	8·1	15·7	6	0	125	45	14	60	31	100	37·7	
FEB. 1915, .	26·2	6·7	6·6	22·9	7	0	45	47	354	39	52	189	38·3	
FEB. 1914, .	27·4	7·3	6·5	17·3	5	0	169	33	24	52	49	140	42·8	
FEB. 1913, .	26·5	8·1	5·4	20·1	8	0	21	10	196	34	42	140	40·3	
FEB. 1912, .	26·1	6·4	5·4	20·5	10	0	252	12	62	56	51	148	39·3	
FEB. 1911, .	26·1	8·0	5·9	21·2	6	0	18	22	155	36	35	145	39·7	
FEB. 1910, .	27·0	7·5	5·7	19·3	11	0	169	26	27	43	28	122	39·1	
FEB. 1909, .	27·8	7·9	5·1	21·0	12	0	9	19	173	44	40	148	38·9	
FEB. 1908, .	27·5	7·9	5·8	23·1	14	3	202	22	98	32	-	164	41·3	
FEB. 1907, .	28·1	7·2	6·2	22·7	12	0	18	8	109	37	-	142	37·1	

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

* Per 1000 of the average number of births registered monthly during the most 10 recent years.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—February 1917.

CAUSES OF DEATH.	All Ages.	Age.											
		-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-	
Enteric Fever	5	-	-	1	1	1	-	-	-	-	-	1	
Typhus Fever	-	-	-	-	-	-	-	-	-	-	-	-	
Small-pox	-	-	-	-	-	-	-	-	-	-	-	-	
Measles	71	18	44	8	-	-	1	-	-	-	-	-	
Scarlet Fever	9	-	3	4	1	-	1	-	-	-	-	-	
Whooping-cough	106	30	72	4	-	-	-	-	-	-	-	-	
Diphtheria and Croup	31	-	24	5	-	1	-	-	1	-	-	-	
Influenza	11	-	-	1	-	-	-	-	1	2	1	4	
Erysipelas	8	1	-	-	-	-	-	-	3	3	-	1	
Phthisis, Pulmonary Tuberculosis	334	6	6	7	6	59	90	73	58	23	5	1	
Tuberculous Meningitis	57	13	28	7	4	5	-	-	-	-	-	-	
Abdominal Tuberculosis	31	3	14	4	2	2	3	1	-	2	-	-	
Other Tuberculous Diseases	48	2	13	2	3	8	4	6	6	4	-	-	
Cancer, Malignant Disease	210	-	-	-	-	2	5	15	43	63	60	22	
Rheumatic Fever	7	-	-	1	-	4	-	2	-	-	-	-	
Meningitis	33	17	10	3	3	-	-	-	-	-	-	-	
Organic Heart Disease	319	2	2	4	5	11	7	28	35	78	89	58	
Bronchitis	381	54	19	-	4	6	16	31	70	82	99	-	
Pneumonia (all forms)	390	89	102	10	4	10	13	19	32	38	44	29	
Other Diseases of Respiratory Organs	54	12	6	-	-	-	-	5	5	8	13	5	
Diarrhoea and Enteritis (under 2 years)	26	21	5	-	-	-	-	-	-	-	-	-	
Appendicitis and Typhlitis	17	-	1	3	1	2	-	3	-	7	-	-	
All Liver Diseases (not Malignant)	17	-	-	-	-	-	1	1	5	3	6	1	
Other Diseases of Digestive System	75	8	6	1	1	2	4	9	11	15	13	5	
Nephritis and Bright's Disease	106	-	5	1	1	3	4	12	24	24	22	10	
Puerperal Sepsis	10	-	-	-	-	2	5	3	-	-	-	-	
Other Diseases & Accidents of Pregnancy & Parturition	20	-	-	-	-	6	11	3	-	-	-	-	
Congenital Debility and Malformation, including Pre-mature Birth	179	176	3	-	-	-	-	-	-	-	-	-	
Violent Deaths, excluding Suicide	168	14	13	4	3	6	9	15	13	10	8	13	
Suicide	10	-	-	-	-	1	1	4	1	2	1	-	
Other Defined Diseases	732	58	16	6	9	13	22	38	75	98	180	217	
Diseases Ill-defined or Unknown	68	5	4	-	-	2	1	4	12	6	14	20	
All Causes	3473	529	396	76	44	144	189	258	357	455	541	484	

DEATHS IN EACH TOWN (corrected for Transfers)—February 1917.

CAUSES OF DEATH.		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever		1	1	...	...	...	...	...	...
Typhus Fever		...	...	...	...	...	...	...	...
Small-pox		...	...	...	...	...	...	...	...
Measles		35	9	19	1	2	1	...	3
Scarlet Fever		4	1	...	1	...	1	1	...
Whooping-cough		59	18	...	1	...	12	...	...
Diphtheria and Croup		14	5	3	1	1	1	1	1
Influenza		4	5	...	1	...	...	...	1
Erysipelas		5	2	...	...	...	...	1	...
Phthisis, Pulmonary Tuberculosis		177	34	25	23	12	13	11	3
Tuberculous Meningitis		24	9	4	4	4	2	...	...
Abdominal Tuberculosis		10	6	6	2	2	2	1	...
Other Tuberculous Diseases		15	10	4	5	2	3	1	...
Cancer, Malignant Disease		89	38	17	11	9	9	11	4
Rheumatic Fever		3	1	...	...	1	2	...	...
Meningitis		17	...	2	2	1	4	2	...
Organic Heart Disease		118	59	41	24	4	23	11	11
Bronchitis		173	58	38	25	13	8	12	6
Pneumonia (all forms)		193	51	43	18	9	14	8	6
Other Diseases of Respiratory Organs		21	13	5	3	1	2	2	2
Diarrhoea and Enteritis (under 2 years)		13	1	6	1	1	...	...	...
Appendicitis and Typhlitis		11	5	...	...	...	...	...	...
All Liver Diseases (not Malignant)		8	3	2	1	1	...	...	...
Other Diseases of Digestive System		34	18	2	6	4	...	4	1
Nephritis and Bright's Disease		61	16	2	10	...	2	5	1
Puerperal Sepsis		6	...	...	2	...	...	...	1
Other Diseases and Accidents of Pregnancy and Parturition		9	5	...	2	...	2	1	...
Congenital Debility and Malformation, including Premature Birth		88	16	14	12	8	5	9	3
Violent Deaths, excluding Suicide		56	9	10	10	1	6	2	...
Suicide		...	1	4	2	...	2	...	1
Other Defined Diseases		302	134	79	45	23	29	22	14
Diseases Ill-defined or Unknown		40	3	2	3	2	3	4	3
All Causes		1590	531	328	216	101	146	109	60
AGE AT DEATH.									
Under 1		253	54	62	29	18	18	14	6
1-4		187	42	45	17	11	18	13	7
5-9		38	11	11	1	1	4	1	...
10-14		19	5	4	8	...	3	...	...
15-24		69	19	10	14	4	8	3	2
25-34		92	20	20	10	5	10	10	2
35-44		131	31	25	17	7	13	6	5
45-54		181	60	30	13	8	15	10	4
55-64		205	76	34	33	17	20	19	8
65-74		234	119	45	32	15	20	14	13
75 and over		181	94	42	42	15	17	19	13
All Ages		1590	531	328	216	101	146	109	60

DEATHS IN EACH TOWN (corrected for Transfers)—February 1917—continued.

		CAUSES OF DEATH.								
		Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.	
Enteric Fever	...	1	...	...	1	...	1	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	1	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	...
Scarlet Fever	...	...	...	...	...	...	...	1	...
Whooping-cough	...	1	1	...	4	...	1	7	2	
Diphtheria and Croup	...	...	...	1	1	1	1	...	...
Influenza	...	...	...	1	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	5	2	3	6	6	6	6	2	
Tuberculous Meningitis	...	1	...	...	1	1	1	4	2
Abdominal Tuberculosis	...	1	...	...	...	...	1	...	...
Other Tuberculous Diseases	...	3	1	1	1	1	...	1	...	
Cancer, Malignant Disease	...	3	3	2	3	1	4	...	6	
Rheumatic Fever	...	...	...	...	...	...	...	...	...
Meningitis	...	2	1	...	...	1	...	...	1
Organic Heart Disease	...	5	2	9	2	3	6	1	...	
Bronchitis	...	4	8	11	4	2	10	6	3	
Pneumonia (all forms)	...	9	6	6	5	6	9	3	4	
Other Diseases of Respiratory Organs	...	...	...	1	...	1	...	...	1
Diarrhoea and Enteritis (under 2 years)	...	...	1	...	...	1	1	...	1
Appendicitis and Typhlitis	...	...	1	...	...	...	...	...	...
All Liver Diseases (not Malignant)	...	...	...	1	1	...	...	...	...
Other Diseases of Digestive System	...	...	...	1	1	...	2	1	1
Nephritis and Bright's Disease	...	1	2	1	1	...	2	1	1	
Puerperal Sepsis	...	...	...	...	...	...	1	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	1	...	...	...	1	...	...
Congenital Debility and Malformation, including Premature Birth	...	3	3	6	2	3	3	2	2	
Violent Deaths, excluding Suicide	...	3	2	1	...	2	2	1	3	
Suicide	...	...	...	...	...	...	...	...	...
Other Defined Diseases	...	17	9	12	4	10	16	11	5	
Diseases Ill-defined or Unknown	...	...	...	1	...	4	2	...	1
All Causes		59	42	59	37	43	72	45	35	
AGE AT DEATH.										
Under 1	...	8	11	11	6	10	14	11	4	
1- 4	...	10	6	6	9	5	7	7	6	
5- 9	...	1	1	...	2	...	1	4	...	
10-14	...	1	...	1	1	...	...	1	1
15-24	...	4	3	1	...	2	3	2	...	
25-34	...	4	...	3	2	4	5	...	2	
35-44	...	3	4	5	1	1	5	3	1	
45-54	...	3	2	4	4	6	8	7	2	
55-64	...	7	7	5	4	6	6	3	5	
65-74	...	10	5	10	6	3	10	3	2	
75 and over	...	8	3	13	2	6	13	4	12	
All Ages		59	42	59	37	43	72	45	35	

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,
During the Month of FEBRUARY 1917.

OBSERVERS.	BARO-METER.	AIR TEMPERATURE.		HYGROMETER.		RAIN, AND OTHER FORMS OF PRECIPITATION.		WIND DIRECTIONS.																			
		Mean of at Sea-Level and 32°.		Mean at Station and 32°.		Mean at 9 A.M. and 9 P.M.		Number of Observations at 9 A.M. and 9 P.M.																			
		Height of Station above Sea-level.	Mean of Minimum (B.)	Maximum (A.)	Difference from Mean of A and B (Mean Temperature). -	Day of Month.	Absolute Maximum and Minimum.	Depression of Wet Bulb.	Vapour Pressure.	Humidity.	Total Fall.	Difference from Average.	N	NE	E	SE	S	SW	W	NW	Calm or Variable.						
GLASGOW, The Observatory.	184	29.906	30.114	40.5	33.1	36.8	-2.3	48	8, 26	23	6/h	36.0	1.2	*	0.94	-1.94	4	12	8	1	3	9	15	4	0		
EDINBURGH, Professor R. A. Sampson, F.R.S., Royal Observatory.	441	29.618	30.118	39.9	31.9	35.9	-2.4	48	23, 26,	23	4, 6	35.4	1.5	.179	.87	.9	0.58	-0.98	2	3	1	7	2	10	10	11	
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	164	29.915	30.101	39.8	30.7	35.3	-2.2	50	28/h	17	6/h	34.3	0.9	.180	.90	6	1.31	-0.57	0	7	1	9	0	20	3	16	0
ABERDEEN,* The Meteorological Office.	90	29.981	30.084	42.0	32.3	37.2	-1.1	52	27/h	18	6/h	36.2	1.4	.187	.88	9	0.98	-1.07	2	0	0	7	10	10	16	9	2
PAISLEY, The Coats Observatory.	167	30.006	30.128	41.7	32.8	37.3	-2.3	51	28/h	23	6/h	36.3	1.4	.188	.88	13	0.95	-2.56	3	2	4	2	1	4	11	8	21
LEITH,† JAMES BOLAM, Navigation School.	76	30.028	30.115	40.2	32.3	36.3	-3.2	48	23, 26	22	6/h	36.0	1.2	.189	.89	8	0.55	-1.10	2	4	8	4	0	4	22	4	8
GREENOCK, DANIEL MACALISTER, C.E., Greenock Waterworks.	233	29.843	30.113	41.3	33.7	37.5	1.1	50	8/h	25	5, 6	36.4	1.1	.195	.91	14	1.38	-4.24	0	6	11	4	0	10	17	7	1
PERTH, HENRY COATES, F.R.S.E., The Museum.	62	30.734	30.104	41.8	29.2	35.5	-2.1	51	26/h	12	13/h	34.5	1.1	.178	.88	7	0.70	-1.57	6	4	2	6	4	17	9	5	3
Means	170	29.916	30.110	40.9	32.0	36.5	2.1	..	..	..	..	35.6	1.2	.186	.89	10	0.92	-1.76	2	5	4	5	3	10	13	8	6

North Latitude.—Glasgow, 55° 51'; Edinburgh, 56° 28'; Dundee, 56° 55'; Aberdeen, 57° 9'; Paisley, 57° 57'; Greenock, 55° 58'; Leith, 55° 51'; Perth, 56° 23'; Mean, 56° 11'. West Longitude.—Glasgow, 4° 18'; Edinburgh, 3° 11'; Dundee, 2° 57'; Aberdeen, 2° 7'; Paisley, 4° 27'; Leith, 3° 8'; Greenock, 4° 46'; Perth, 3° 25'; Mean, 3° 32'.

* At King's College, at 7 A.M. and 6 P.M.
† At 9 A.M. only.
Av 2 A.M. only.

FOR OFFICIAL USE.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

MARCH 1917.

Published by Authority of the Registrar-General.

EDINBURGH: PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.

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REPORT.

During the month of March 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the 1911 Census had populations of over 30,000, the births of 4283 living children, of whom 2208 were male and 2075 female. The male children are 191 more than in February, but 352 fewer than in March of last year. The female children are 217 more than in February, but 397 fewer than in March of last year. The total children are 408 more than in February, 100 more than the mean for the three preceding months, but are 749 fewer than in March of last year. The equivalent annual birth-rate is 21·0 per thousand of the estimated aggregate population. This rate is the same as in the previous month, 0·3 below the mean of the rates for the three preceding months, and 4·0 below that for March of last year. In the towns taken individually this rate ranged from 32·6 in Clydebank, 28·0 in Greenock, and 27·7 in Coatbridge, to 11·7 in Perth, 15·7 in Dundee, and 16·4 in Edinburgh. In Ayr it was 25·2; in Paisley and in Hamilton, 24·7; in Motherwell, 24·4; in Glasgow, 22·2; in Falkirk, 19·7; in Leith, 19·5; in Aberdeen, 19·2; in Kirkcaldy, 18·7; and in Kilmarnock, 17·2.

Of the 4283 children whose births were registered, 3944, or 92·1 per cent., were legitimate, and 339, or 7·9 per cent., were illegitimate. The illegitimate children are 5 more than in the previous month, and 2 more than the mean for the three preceding months, but are 9 fewer than in March of last year. The illegitimate rate is 0·7 below that for the previous month, 0·2 below the mean of the rates for the three preceding months, and 1·0 below that for March of last year. In the towns taken individually this rate ranged from 20·0 in Perth, 11·3 in Edinburgh and in Ayr, to 1·1 in Motherwell, 3·1 in Clydebank, and 3·5 in Falkirk. In Aberdeen it was 8·9; in Glasgow, 8·8; in Kilmarnock, 7·4; in Coatbridge, 6·7; in Paisley and in Greenock, 5·3; in Hamilton, 4·9; in Kirkcaldy, 4·6; in Dundee, 4·5; and in Leith, 4·4.

Marriages registered during the month numbered 1179. They are 5 more than in the previous month, but 528 fewer than the mean for the three preceding months, and 216 fewer than in March of last year. The equivalent annual marriage-rate is 5·8 per thousand. It is 0·6 below that for the previous month, 2·8 below

the mean of the rates for the three preceding months, and 1·1 below that for March of last year. In the towns taken individually this rate ranged from 7·7 in Perth, 7·4 in Edinburgh, and 6·1 in Glasgow, to 1·9 in Coatbridge, and 2·8 in Clydebank and in Falkirk. In Aberdeen it was 5·9; in Greenock, 5·6; in Kilmarnock, 5·4; in Paisley and in Leith, 5·1; in Dundee, 4·9; in Kirkcaldy, 4·3; in Motherwell, 4·2; in Ayr, 3·6; and in Hamilton, 3·4.

Deaths registered in these towns numbered 3548, of which 1865 were of males, and 1683 of females. These deaths include those of 286 persons with usual residence outwith the town of registration, but they exclude those of 243 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 43, falls to be deducted to get the corrected number of deaths for the month, which is thus found to be 3505. This number is 32 more than in the previous month, but is 48 fewer than the mean of the numbers for the three preceding months, and 354 fewer than in March of last year.

The death-rate for the month, corrected, is 17·2 per thousand. It is 1·6 below that for the previous month, 0·9 below the mean of the rates for the three preceding months, and 2·0 below that for March of last year. In the towns taken individually this rate ranged from 22·0 in Perth, 20·8 in Leith, and 20·5 in Coatbridge, to 10·3 in Clydebank, 12·6 in Motherwell, and 13·0 in Kilmarnock. In Falkirk it was 19·0; in Edinburgh, 18·7; in Ayr, 17·8; in Kirkcaldy, 17·6; in Glasgow, 17·3; in Hamilton, 17·1; in Greenock, 16·7; in Dundee, 16·6; in Aberdeen, 16·5; and in Paisley, 13·3.

Deaths of children of less than one year old numbered 611. They are 82 more than in the previous month, 40 more than the mean for the three preceding months, and 3 more than in the corresponding month of last year. They are equal to an infantile mortality rate of 131 per thousand of the average number of births registered monthly during the preceding twelve months. This rate is 7 more than in the previous month, 6 more than the mean of the rates for the three preceding months, and 2 more than that for March of last year. In the towns taken individually this rate ranged from 191 in Kirkcaldy, 189 in Perth, and 179 in Coatbridge, to 71 in Clydebank, 78 in Greenock, and 83 in Ayr. In Leith it was 155; in Hamilton, 152; in Glasgow, 141; in Aberdeen, 134; in Falkirk, 127; in Edinburgh, 123; in Motherwell, 121; in Kilmarnock, 111; in Dundee, 103; and in Paisley, 94.

Deaths from the principal epidemic diseases numbered 361, and included 3 from enteric fever, 88 from measles, 7 from scarlet fever, 181 from whooping-cough, 38 from diphtheria, and 44 from the diarrhoeas of childhood. These deaths collectively are 113 more than in the previous month, 138 more than the mean for the three preceding months, and 5 more than in March of last year. The monthly death-rate from these causes was 1·8 per thousand. It is 0·5 above that for the previous month, and 0·7 above the mean of the rates for the three preceding months, but is the same as that for March of last year. This rate ranged from 3·3 in Leith, where whooping-cough was prevalent, 3·1 in Falkirk, and 2·7 in Hamilton, where whooping-cough was also prevalent, to 0·4 in Greenock, 0·5 in Paisley, and 0·6 in Kilmarnock. In Glasgow it was 2·0; in Edinburgh, 2·2; in Dundee, 1·5; and in Aberdeen, 0·9.

Deaths from pneumonia numbered 374, and from bronchitis 326. The former are 16 fewer than in the previous month, and the latter 55 fewer.

Deaths from all forms of tuberculosis numbered 431, 280 of these being attributed to phthisis. The total deaths from tuberculosis are 39 fewer than in the previous month, and 31 fewer than in March of last year. Those from phthisis are 54 fewer than in the previous month, and 32 fewer than in March of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
Meteorological Society.

MARCH 1917.

Mean barometric pressure, 29·800 in.; less than the average of 1881–1915 by 0·001 in.

Mean temperature, 37°·4; less by 3°·0.

Mean daily range of temperature, 11°·2; less by 0°·6.

Rain, number of days, 19; greater by 2 days.

Rain, depth in inches, 2·04; less by 0·64 in.

Wind, direction of: a 2 days' excess of winds from S.E., and a 2 days' excess of winds from N.W. and N.

Hence the month was characterised by a normal mean pressure; an abnormally low mean temperature, with a slightly low mean daily range; a rather low mean rainfall; and an excess of winds from south-east and also from north.

Pressure distribution was very irregular from about 4th to 10th, and there were some considerable fluctuations around 19th and 25th, and at the very end of the month. The mean value was 29·800 in., or practically the normal, and at Leith, at sea-level, pressure was above 30 in. on 1st and 2nd, from 15th to 18th, from 22nd to 24th, and on 27th, the extremes there being 30·54 in. on evening of 15th, and 28·98 in. on evening of 29th.

The first three or four days were fairly mild; but there then developed a spell of extremely wintry weather which reached its greatest intensity between 8th and 10th. On 9th the thermometer (in the standard "Stevenson Screen") fell to –3° F. at Braemar and to –2° F. at West Linton,—the lowest readings on record for Scotland in March since observations were organised in 1856. The severe cold was accompanied by biting winds from east and south-east. By 17th milder conditions were again in evidence, and thereafter temperature varied with wind direction, being fairly high around 25th and again low at the end of the month. As regards the chief towns, the mean temperature of 37°·4, or 3°·0 below the normal, was slightly above that of March 1916,—the days being decidedly milder and the nights colder; the days were 3°·3 and the nights were 2°·7 below their respective averages; the mean daily range was 11°·2 as compared with the abnormally low range of 8°·2 in March 1916; and the extremes were 55° at Aberdeen and Perth on 24th, and 5° at Perth on 9th.

Much of the month's precipitation consisted of snow and sleet, but on many of the nominal "rain-days" falls were slight, and there were various almost quite dry periods. Some heavy falls of rain (or rain accompanied by snow and sleet) occurred in eastern and central districts on 5th; more widely on 10th, though not towards north-west; and very generally on 28th,—about 1½ in. at Greenock. The month's aggregates were at least equal to the normal at a few points,—as at Perth; but were in general deficient, and Leith had less than half the normal. The mean for the chief towns was 2·04 in., or 24 per cent. below the normal.

From about 4th to 7th the weather was of a stormy easterly to south-easterly type, and heavy falls of snow were widely experienced. At Balmoral there was a depth on 7th and 8th of 20 in., and in exposed districts snow lay on the ground until 17th, with some serious drifting at first. There were less important falls later in the month, though rather heavy in some districts around 19th and 26th and on 31st, with squally winds or gales.

Sunshine amounts were fully equal to the normal in the south, but deficient in the north.

An aurora was observed at Aberdeen and Paisley on night of 17th, and at Lerwick, Braemar and Paisley on 19th.

NOTE.—For meteorological table see p. 24.

*Abstract.*TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, MARCH 1917.

TOWNS.	POPULATION.		BIRTHS.						DEATHS.					
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	MARRIAGES.	Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW, . .	1,008,487	1,115,800	1084	1024	2108	1922	186	581	871	795	1666	109	78	1635
EDINBURGH, . .	320,769	331,800	242	220	462	410	52	209	278	300	578	94	42	526
DUNDEE, . .	176,085	184,300	125	121	246	235	11	76	129	124	253	4	11	260
ABERDEEN, . .	163,891	165,700	137	133	270	246	24	83	138	104	242	22	12	232
PAISLEY, . .	84,455	89,700	96	92	188	178	10	39	52	47	99	6	8	101
LEITH, . . .	80,601	82,800	66	71	137	131	6	36	57	58	115	3	34	146
GREENOCK, . .	75,140	79,600	99	90	189	179	10	38	68	46	114	7	6	113
PERTH, . . .	35,854	35,400	16	19	35	28	7	23	40	34	74	12	4	66
TOTAL . . . (EIGHT TOWNS)	1,945,282	2,085,100	1865	1770	3635	3329	306	1085	1633	1508	3141	257	195	3079
COATBRIDGE, . .	43,290	44,300	54	50	104	97	7	7	54	30	84	9	2	77
MOTHERWELL . .	40,380	42,000	39	48	87	86	1	15	17	26	43	1	3	45
KIRKCALDY . .	39,601	40,900	34	31	65	62	3	15	34	21	55	3	9	61
HAMILTON, . .	38,644	38,600	48	33	81	77	4	11	29	19	48	2	10	56
CLYDEBANK, . .	37,548	46,700	66	63	129	125	4	11	17	15	32	1	10	41
KILMARNOCK, . .	34,728	37,000	30	24	54	50	4	17	24	19	43	4	2	41
FALKIRK, . . .	33,574	34,100	33	24	57	55	2	8	25	24	49	4	10	55
AYR, . . .	32,986	33,100	39	32	71	63	8	10	32	21	53	5	2	50
TOTAL . . . (SIXTEEN TOWNS)	2,246,033	2,401,800	2208	2075	4283	3944	339	1179	1865	1683	3548	286	243	3505

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, MARCH 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 of POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.	
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.	Number.	* Rate per 1000 Births.
				Uncor- rected.	Cor- rected.						
GLASGOW, . .	22·2	8·8	6·1	17·6	17·3	2·0	2·1	1·4	3·9	326	141
EDINBURGH, . .	16·4	11·3	7·4	20·5	18·7	2·2	2·3	1·4	3·5	62	123
DUNDEE, . .	15·7	4·5	4·9	16·2	16·6	1·5	2·2	1·5	2·8	32	103
ABERDEEN, . .	19·2	8·9	5·9	17·2	16·5	0·9	2·1	1·3	4·2	40	134
PAISLEY, . .	24·7	5·3	5·1	13·0	13·3	0·5	1·2	0·9	2·8	16	94
LEITH, . . .	19·5	4·4	5·1	16·3	20·8	3·3	2·7	1·6	4·5	23	155
GREENOCK, . .	28·0	5·3	5·6	16·9	16·7	0·4	2·8	1·6	1·9	15	78
PERTH, . . .	11·7	20·0	7·7	24·7	22·0	0·7	1·7	1·3	2·3	10	189
TOTAL . . . (EIGHT TOWNS)	20·5	8·4	6·1	17·7	17·4	1·8	2·1	1·4	3·7	524	132
COATBRIDGE, . .	27·7	6·7	1·9	22·3	20·5	1·6	2·9	1·6	5·3	19	179
MOTHERWELL, .	24·4	1·1	4·2	12·0	12·6	1·4	1·7	0·8	3·1	12	121
KIRKCALDY, . .	18·7	4·6	4·3	15·8	17·6	0·9	2·0	0·9	3·7	13	191
HAMILTON, . .	24·7	4·9	3·4	14·6	17·1	2·7	1·5	0·9	5·2	14	152
CLYDEBANK, . .	32·6	3·1	2·8	8·1	10·3	0·8	0·5	0·5	2·3	8	71
KILMARNOCK, . .	17·2	7·4	5·4	13·7	13·0	0·6	2·2	1·3	3·2	8	111
FALKIRK, . . .	19·7	3·5	2·8	16·9	19·0	3·1	2·8	1·0	3·8	8	127
AYR, . . .	25·2	11·3	3·6	18·8	17·8	1·4	2·8	1·4	4·6	5	83
TOTAL . . . (SIXTEEN TOWNS)	21·0	7·9	5·8	17·4	17·2	1·8	2·1	1·4	8·7	611	181

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR MARCH 1917, and for the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL TOWNS.

MONTH.	Birth-Rate.	Illegitimate Birth-rate per 100 Births.	Marriage-Rate.	Death-Rate.	DEATHS FROM									* Infantile Mortality Rate.	Mean Temperature (Eight Towns only)
					(6)	Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-Cough.	Diphtheria and Croup.	Diarrhoea (Under 2 Years).	(12)		
(1)	(2)	(3)	(4)	(5)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(13)	(14)	
MAR. 1917, .	21·0	7·9	5·8	17·2	3	0	88	7	181	38	44	131	37°·4		
MAR. 1916, .	25·0	6·9	6·9	19·2	9	0	177	36	27	51	56	129	36°·9		
MAR. 1915, .	28·8	6·5	7·1	22·4	7	0	110	51	418	45	36	176	40°·8		
MAR. 1914, .	27·4	6·3	6·6	17·2	4	1	165	33	44	38	55	122	40°·8		
MAR. 1913, .	26·0	7·0	7·8	18·3	9	0	28	19	221	36	73	135	41°·1		
MAR. 1912, .	27·1	6·5	4·6	16·3	11	0	205	31	42	32	50	121	43°·4		
MAR. 1911, .	28·7	7·9	5·5	18·3	6	0	14	18	146	24	42	123	40°·6		
MAR. 1910, .	28·0	7·1	6·6	18·5	9	0	193	20	37	31	49	137	43°·3		
MAR. 1909, .	30·7	7·3	5·7	23·9	13	0	7	26	262	39	44	153	37°·3		
MAR. 1908, .	28·9	6·6	6·5	21·1	5	1	209	21	94	17	-	146	39°·3		
MAR. 1907, .	27·6	7·5	5·7	21·1	16	0	25	3	133	31	-	136	43°·1		

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-18 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—March 1917.

CAUSES OF DEATH.	All Ages.	Age.														
		-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-				
Enteric Fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Typhus Fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Small-pox	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Measles	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Scarlet Fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Whooping-cough	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diphtheria and Croup	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Influenza	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Erysipelas	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Phthisis, Pulmonary Tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Tuberculous Meningitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Abdominal Tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other Tuberculous Diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Cancer, Malignant Disease	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Rheumatic Fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Meningitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Organic Heart Disease	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Bronchitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Pneumonia (all forms)	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other Diseases of Respiratory Organs	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diarrhoea and Enteritis (under 2 years)	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Appendicitis and Typhlitis	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
All Liver Diseases (not Malignant)	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other Diseases of Digestive System	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Nephritis and Bright's Disease	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Puerperal Sepsis	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other Diseases & Accidents of Pregnancy & Parturition	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Congenital Debility and Malformation, including Premature Birth	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Violent Deaths, excluding Suicide	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Suicide	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Other Defined Diseases	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Diseases Ill-defined or Unknown	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
All Causes	—	—	—	—	*3505	611	488	75	67	165	165	251	304	460	517	401

* Includes 1 of unstated age.

DEATHS IN EACH TOWN (corrected for Transfers)—March 1917.

CAUSES OF DEATH..		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever ...		1	...	...	...	...	...	...	...
Typhus Fever ...		...	...	...	...	...	...	...	...
Small-pox ...		...	...	...	...	...	...	...	...
Measles ...		46	23	13	...	1	1	1	1
Scarlet Fever ...		4	1	...	1	...	...	...	...
Whooping-cough ...		105	30	...	1	1	19	1	1
Diphtheria and Croup ...		13	4	4	6	...	3	2	1
Influenza ...		2	4	...	...	...	...	1	...
Erysipelas ...		3	1	1	1	1	...	...	...
Phthisis, Pulmonary Tuberculosis ...		137	40	23	19	7	11	11	4
Tuberculous Meningitis ...		29	7	1	4	...	4	5	...
Abdominal Tuberculosis ...		18	4	5	4	...	2	1	1
Other Tuberculous Diseases ...		12	14	6	2	2	2	2	...
Cancer, Malignant Disease ...		89	42	19	16	10	6	10	4
Rheumatic Fever ...		5	...	...	...	...	1	...	...
Meningitis ...		20	2	3	1	2	1	3	2
Organic Heart Disease ...		110	53	36	22	13	15	17	11
Bronchitis ...		163	44	19	24	11	7	6	4
Pneumonia (all forms) ...		184	51	23	29	8	22	6	1
Other Diseases of Respiratory Organs ...		27	5	2	6	2	3	1	2
Diarrhoea and Enteritis (under 2 years)		21	5	6	4	2	...	...	1
Appendicitis and Typhlitis ...		6	...	...	...	...	...	...	1
All Liver Diseases (not Malignant) ...		6	3	1	1	1	2	...	...
Other Diseases of Digestive System ...		40	19	9	5	3	3	4	4
Nephritis and Bright's Disease ...		65	19	8	8	4	5	2	4
Puerperal Sepsis ...		4	1	1	1	...	2	...	4
Other Diseases and Accidents of Pregnancy and Parturition ...		9	1	...	1	1	...	...	...
Congenital Debility and Malformation, including Premature Birth ...		101	21	18	10	6	6	6	5
Violent Deaths, excluding Suicide ...		67	13	10	7	5	2	5	...
Suicide ...		5	...	...	2	...	...	...	...
Other Defined Diseases ...		312	118	49	50	19	27	24	20
Diseases Ill-defined or Unknown ...		31	1	3	7	2	2	6	1
All Causes ...		1635	526	260	232	101	146	113	66
AGE AT DEATH.									
Under 1 ...		326	62	32	40	16	23	15	10
1- 4 ...		261	65	36	21	6	38	12	2
5- 9 ...		39	11	5	3	...	4	2	...
10-14 ...		37	10	4	3	2	1	1	...
15-24 ...		73	23	11	6	9	8	5	5
25-34 ...		90	22	11	9	5	4	3	3
35-44 ...		112	38	20	24	6	8	8	4
45-54 ...		138	47	32	14	13	7	13	7
55-64 ...		188	85	34	30	16	18	20	10
65-74 ...		228	79	40	41	15	23	25	11
75 and over ...		143	84	35	40	13	12	9	14
Age not stated ...		...	...	...	1	...	...	...	...
All Ages ...		1635	526	260	232	101	146	113	66

DEATHS IN EACH TOWN (corrected for Transfers)—March 1917—continued.

CAUSES OF DEATH.

		Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.
Enteric Fever	...	...	...	...	...	...	...	2	...
Typhus Fever	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	1	1	1	...	1	...
Measles	...	...	...	...	...	...	...	1	...
Scarlet Fever	...	...	...	...	7	...	...	5	4
Whooping-cough	...	6	2	...	1	1	...	...	...
Diphtheria and Croup	...	...	1	2	...	...	...	...	...
Influenza	...	...	1	...	...	...	...	...	1
Erysipelas	...	...	...	...	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	6	3	3	3	2	4	3	4
Tuberculous Meningitis	...	2	2	2	2	...	1	2	1
Abdominal Tuberculosis	...	2	1	1	...	...	...	...	2
Other Tuberculous Diseases	...	1	...	1	...	...	2	3	1
Cancer, Malignant Disease	...	3	3	2	...	2	3	2	3
Rheumatic Fever	...	...	...	...	1	1	...	1	...
Meningitis	...	1	2	...	1	...	1	...	...
Organic Heart Disease	...	6	2	8	5	5	2	4	4
Bronchitis	...	5	5	10	4	6	7	4	7
Pneumonia (all forms)	...	13	5	3	12	3	1	7	6
Other Diseases of Respiratory Organs	...	2	1	...	1	...	2	...	...
Diarrhoea and Enteritis (under 2 years)	...	...	2	...	...	1	2	...	...
Appendicitis and Typhlitis	...	...	...	...	1	...	...	...	1
All Liver Diseases (not Malignant)	...	...	...	...	...	...	...	...	...
Other Diseases of Digestive System	...	2	3	2	2	1	...	1	1
Nephritis and Bright's Disease	...	1	1	1	...	...	1	1	4
Puerperal Sepsis	...	...	...	...	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	...	...	1	...	1	...
Congenital Debility and Malformation, including Premature Birth	...	8	3	8	3	5	3	5	1
Violent Deaths, excluding Suicide	...	1	1	2	2	4	...	...	1
Suicide	...	...	...	...	...	...	...	...	...
Other Defined Diseases	...	17	5	14	9	8	11	10	9
Diseases Ill-defined or Unknown	...	1	2	1	1	...	1	2	...
All Causes	...	77	45	61	56	41	41	55	50
AGE AT DEATH.									
Under 1	...	19	12	13	14	8	8	8	5
1-4	...	9	7	7	5	4	3	6	6
5-9	...	...	...	1	5	...	1	4	...
10-14	...	3	2	...	1	...	1	1	1
15-24	...	1	3	4	1	3	3	7	3
25-34	...	1	3	2	2	2	4	3	1
35-44	...	6	3	4	4	3	3	2	6
45-54	...	5	4	3	4	4	5	4	4
55-64	...	17	3	11	5	5	6	3	9
65-74	...	11	4	10	8	4	4	9	5
75 and over	...	5	4	6	7	8	3	8	10
All Ages	...	77	45	61	56	41	41	55	50

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,
During the Month of MARCH 1917.

OBSERVERS.	BARO-METER.	AIR TEMPERATURE.	HYGROMETER.	RAIN, AND OTHER FORMS OF PRECIPITATION.	WIND DIRECTIONS.									
					Absolute Maximum and Minimum.		Mean at 9 A.M. and 9 P.M.		Number of Days.		Number of Observations at 9 A.M. and 9 P.M.			
					Day of Month.	Minimum.	Dry Bulb.	Vapour Pressure.	Depression of Wet Bulb.	Humidity.	N	NE	E	SE
GLASGOW, The Observatory.	184 29.587	29.795 42.2	32.9 37.6	-3.0	52 16th	20 9th	36.9 2.1	180 83	17 1.08	2.06 -0.61	8 8	4 2	12 7	1 3
EDINBURGH, Professor R. A. Sampson, F.R.S., Royal Observatory.	441 29.807	29.800 42.3	31.7 37.0	-2.9	52 24th	21 9th	36.0 2.1	173 81	15 1.08	0.69 -0.69	8 8	2 2	7 15	2 0
DUNDEE, Alex. Macrae, Curator of Cemeteries.	164 29.616	29.801 43.2	31.1 37.2	-2.6	53 25th	14 9th	35.4 1.3	182 85	17 1.83	-0.23 -0.23	4 7	1 1.4	14 0	0 19
ABERDEEN,* The Meteorological Office.	90 29.676	29.778 43.0	32.1 37.6	-2.5	55 24, 25	18 9th	37.0 1.6	189 189	24 86	1.86 -0.55	5 5	1 2	10 10	11 10
PAISLEY, The Coats Observatory.	107 29.690	29.811 44.5	32.5 38.5	-3.3	53 16, 25	19 9th	37.9 2.5	181 181	18 79	2.28 1.92	6 6	6 6	3 3	8 8
LEITH,† James Bolam, Navigation School.	76 29.726	29.812 42.8	32.3 37.3	-3.7	51 16, 24	19 9th	37.3 1.9	186 186	17 84	1.05 -0.92	6 6	0 0	6 6	2 2
GREENOCK, Daniel Macalister, C.E., Greenock Waterworks.	233 29.533	29.804 42.0	33.0 37.5	-2.6	51 16th	20 9th	37.1 2.4	174 174	22 78*	1.35 -1.35	0 0	11 11	6 0	8 8
PERTH, Henry Coates, F.R.S.E., The Museum.	62 29.725	29.795 43.7	29.1 36.4	-3.7	55 24th	5 9th	36.6 2.0	179 179	20 83	2.73 -0.24	5 5	2 11	4 4	26 5
Means	170 29.608	29.800 43.0	31.8 37.4	-3.0	36.8 2.0	181 181	83 83	2.04 -0.64	5 5	4 4	7 7	8 8

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North Latitude.—Glasgow, 55° 51'; Edinburgh, 55° 55'; Dundee, 56° 28'; Aberdeen, 57° 9'; Paisley, 57° 57'; Greenock, 55° 58'; Leith, 55° 51'; Perth, 56° 23'; Mean, 56° 11'.
West Longitude.—Glasgow, 4° 13'; Edinburgh, 3° 11'; Dundee, 2° 57'; Aberdeen, 2° 27'; Paisley, 4° 27'; Greenock, 3° 8'; Leith, 3° 25'; Perth, 3° 25'; Mean, 3° 32'.

* At King's College, at 7 A.M. and 6 P.M.
† At 9 A.M. only.

FOR OFFICIAL USE.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

APRIL 1917.

Published by Authority of the Registrar-General.

EDINBURGH : PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.

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REPORT.

During the month of April 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the 1911 Census had populations of over 30,000, the births of 4381 living children, of whom 2170 were male and 2211 female. The male children are 36 fewer than in the previous month, and 293 fewer than in April of last year. The female children are 136 more than in the previous month, but are 115 fewer than in April of last year. The total children are 98 more than in the previous month, 151 more than the mean of the numbers for the three preceding months, but are 410 fewer than in April of last year. The equivalent annual birth-rate is 22.2 per thousand of the estimated aggregate population. This rate is 1.2 above that for the previous month, and 0.8 above the mean of the rates for the three preceding months, but is 2.4 below that for April of last year. In the towns taken individually this rate ranged from 30.1 in Greenock, 29.0 in Hamilton, and 28.9 in Coatbridge, to 16.5 in Perth, and 17.5 in Edinburgh and in Kirkcaldy. In Motherwell it was 26.0; in Glasgow, 24.4; in Clydebank, 24.3; in Paisley, 20.9; in Leith, 20.4; in Falkirk, 20.0; in Ayr 19.8; in Kilmarnock, 19.4; in Aberdeen, 18.9; and in Dundee, 17.6.

Of the 4381 children whose births were registered, 4041, or 92.2 per cent., were legitimate, and 340, or 7.8 per cent., were illegitimate. The illegitimate children are 1 more than in the previous month, 8 more than the mean for the three preceding months, and 35 more than in April of last year. The illegitimate rate is 0.1 below that for the previous month, and 0.1 below the mean of the rates for the three preceding months, but is 1.4 above that for April of last year. In the towns taken individually this rate ranged from 11.9 in Kirkcaldy, 11.3 in Edinburgh, and 10.4 in Perth, to 2.2 in Hamilton and in Clydebank, and 3.3 in Motherwell. In Kilmarnock it was 10.2; in Dundee, 9.8; in Aberdeen and in Falkirk, 8.9; in Paisley, 8.4; in Glasgow, 7.7; in Ayr, 5.6; in Leith, 5.0; in Coatbridge, 4.8; and in Greenock, 4.1.

Marriages registered during the month numbered 1574. They are 395 more than in the previous month, 75 more than the mean for the three preceding months, and 26 more than in April of last year. The equivalent annual marriage-rate is 8.0 per thousand. It is 2.2 above that for the previous month, and 0.4 above the mean of the rates for the three preceding months, but is the same as that

for April of last year. In the towns taken individually this rate ranged from 9·1 in Edinburgh, 8·9 in Perth, and 8·4 in Ayr, to 4·6 in Motherwell, 6·0 in Coatbridge and 6·1 in Falkirk. In Glasgow it was 8·3; in Greenock, 8·1; in Aberdeen, 7·7; in Paisley and in Kilmarnock, 7·6; in Dundee, 7·5; in Clydebank, 6·8; in Leith, 6·6; in Hamilton, 6·3; and in Kirkcaldy, 6·2.

Deaths registered in these towns numbered 3611, of which 1897 were of males and 1714 of females. These deaths include those of 284 persons with usual residence outwith the town of registration, but they exclude those of 226 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 58, falls to be deducted to get the corrected number of deaths for the month, which is thus found to be 3553. This number is 48 more than in the previous month, 21 fewer than the mean for the three preceding months, and 219 more than in April of last year.

The death-rate for the month, corrected, is 18·0 per thousand. It is 0·8 above that for the previous month, 0·1 below the mean of the rates for the three preceding months, and 0·9 above that for April of last year. In the towns taken individually this rate ranged from 21·0 in Leith, 20·7 in Edinburgh, and 19·3 in Paisley, to 11·2 in Clydebank, 13·4 in Kirkcaldy, and 13·8 in Perth. In Glasgow it was 18·9; in Ayr, 18·0; in Motherwell, 17·4; in Coatbridge, 16·5; in Greenock, 16·2; in Hamilton and in Kilmarnock, 16·1; in Falkirk, 15·3; and in Dundee and in Aberdeen, 14·8.

Deaths of children of less than one year old numbered 625. They are 14 more than in the previous month, 41 more than the mean for the three preceding months, and 103 more than in April of last year. They are equal to an infantile mortality rate of 140 per thousand of the average number of births registered monthly in these towns during the preceding twelve months. This rate is 9 more than in the previous month, 12 more than the mean of the rates for the three preceding months, and 24 more than in April of last year. In the towns taken individually this rate ranged from 183 in Leith, 172 in Edinburgh, and 158 in Motherwell, to 53 in Ayr, 79 in Coatbridge, and 80 in Perth. In Glasgow it was 156; in Kirkcaldy, 154; in Paisley, 152; in Kilmarnock, 104; in Clydebank, 103; in Falkirk, 102; in Dundee, 95; in Greenock, 92; in Aberdeen, 91; and in Hamilton, 89.

Deaths from the principal epidemic diseases numbered 551, and included 3 from enteric fever, 239 from measles, 5 from scarlet fever, 244 from whooping-cough, 27 from diphtheria, and 33 from the diarrhoeas of childhood. These deaths collectively are 190 more than in the previous month, 269 more than the mean for the three preceding months, and 253 more than in April of last year. This increase is due to the prevalence, principally in Glasgow, in Edinburgh, and in Leith, of measles and whooping-cough. Deaths from measles are 151 more than in the previous month, and 98 more than in April of last year. Deaths from whooping-cough are 63 more than in the previous month, and 204 more than in April of last year. The monthly death-rate from all these principal epidemic diseases is 2·8 per thousand. It is 1·0 above that for the previous month, 1·4 above the mean for the three preceding months, and 1·3 above that for April of last year. This rate ranged from 4·9 in Edinburgh, 4·8 in Leith, and 3·2 in Glasgow, to 0 in Clydebank, and 0·7 in Dundee and in Perth. In Aberdeen it was 0·9.

Deaths from pneumonia numbered 321, being 53 fewer than in the previous month. Deaths from bronchitis numbered 250, being 76 fewer than in the previous month.

Deaths from all forms of tuberculosis numbered 423, of which 274 were attributed to phthisis. The total deaths from tuberculosis are 8 fewer than in the previous month, but 27 more than in April of last year. Those from phthisis are 6 fewer than in the previous month, but 6 more than in April of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
Meteorological Society.

APRIL 1917.

Mean barometric pressure, 29·832 in.; less than the average of 1881-1915 by 0·058 in.

Mean temperature, 41°·0; less by 3°·6.

Mean daily range of temperature, 12°·6; less by 1°·4.

Rain, number of days, 13; less by 2 days.

Rain, depth in inches, 1·46; less by 0·57 in.

Wind, direction of: an 8 days' excess of winds from W. and N.W.

Hence the month was characterised by a slightly low mean pressure; an abnormally low mean temperature, with a rather low mean daily range; a rather low mean rainfall; and a large excess of winds from west and north-west.

Pressure distribution was very irregular until about 18th, but on 19th an anticyclone spread over our Islands and dominated weather conditions in most districts until the end of the month. During the last few days, however, a disturbance travelling from Iceland to Scandinavia affected northern districts. The mean value was 29·832 in., or 0·058 in. below the normal, and at Leith, at sea-level, pressure was above 30 in. on 17th, and from 20th to 27th, the extremes there being 30·61 in. on 25th and 29·11 in. on 14th.

Extremely cold and inclement weather prevailed until 17th or 18th, and at Glencarron the mean temperature of the first week was 12°·9 below the normal and that of the second week 10°·2 below. The thermometer (in the standard "Stevenson Screen") fell to 4° at Eskdalemuir on night of 1st-2nd, and to 8° at Braemar on night of 10th-11th,—the lowest readings on record for April since observations were organised in 1856. During the last ten days temperature was above the normal, with fairly high readings on 22nd; but the month as a whole ranks as the coldest April on record for Scotland, and has been approached in severity, during the last sixty years, only in 1879 and 1877. For the chief towns the mean temperature was 41°·0, or 3°·6 below the normal,—(41°·4 in 1879 and 41°·7 in 1877); the days were 4°·3 and the nights 2°·9 below their respective averages; and the extremes were 65° at Paisley on 22nd and 19° at Perth on 1st.

Precipitation, consisting mainly of snow and sleet, was frequent in practically all districts until 18th, whilst the last ten days of the month were rainless or nearly so except towards the north. The "rainfall equivalent" of melted snow at West Linton for 2nd was as much as 1 in. The month's aggregates were above the normal in south-east and extreme north; but were in general deficient. The mean for the chief towns was 1·46 in., or 28 per cent. below the normal.

Some very severe snowstorms, often with squally winds, occurred. Heavy falls on night of 2nd,—as much as 1 foot or more in exposed districts, were followed by a rapid thaw, and around 5th, 9th, 11th, 14th and 16th there were falls of considerable depth in many districts, more especially towards the Borders, with drifting at times. At Dumfries on 11th snow lay to a depth of 1 foot. With the fine weather of the last ten days the snow quickly disappeared. The total fall of snow for the month may have been unprecedented, but it may be recalled that in 1908 there was a severe snowstorm as late as April 23rd, and that the previous "record" minimum temperature for April (9° at Perth) occurred at that advanced date.

Sunshine amounts were deficient,—at Edinburgh 3½ hours per day as against an average of 4½ hours.

An aurora was observed at Edinburgh on 15th; at Aberdeen on 17th; and at Paisley on 15th, 16th and 20th.

NOTE.—For meteorological table see p. 32.

Abstract.

TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, APRIL 1917.

TOWNS.	POPULATION.		BIRTHS.					MARRIAGES.		DEATHS.				
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	Males.	Females.	Total.	Out.	In.	Total Corrected.	
GLASGOW, . .	1,008,487	1,115,800	1080	1155	2235	2064	171	758	967	808	1775	116	73	1732
EDINBURGH, . .	320,769	331,800	237	239	476	422	54	249	301	230	581	76	59	564
DUNDEE, . .	176,085	184,300	133	133	266	240	26	114	103	121	224	12	12	224
ABERDEEN, . .	163,891	165,700	145	113	258	235	23	105	111	107	218	22	6	202
PAISLEY, . .	84,455	89,700	81	73	154	141	13	56	70	81	151	10	1	142
LEITH, . .	80,601	82,800	84	55	139	132	7	45	54	56	110	4	37	143
GREENOCK, . .	75,140	79,600	95	102	197	189	8	53	64	46	110	8	4	106
PERTH, . .	35,854	35,400	29	19	48	43	5	26	23	23	46	7	1	40
TOTAL . . (EIGHT TOWNS)	1,945,282	2,085,100	1884	1889	3773	3466	307	1406	1693	1522	3215	255	193	3153
COATBRIDGE, . .	43,290	44,300	53	52	105	100	5	22	39	20	59	4	5	60
MOTHERWELL . .	40,380	42,000	36	54	90	87	3	16	29	25	54	0	6	60
KIRKCALDY . .	39,601	40,900	29	30	59	52	7	21	18	24	42	1	4	45
HAMILTON, . .	38,644	38,600	51	41	92	90	2	20	27	27	54	5	2	51
CLYDEBANK, . .	37,548	46,700	41	52	93	91	2	26	12	24	36	1	8	43
KILMARNOCK, . .	34,728	37,000	24	35	59	53	6	23	25	26	51	6	4	49
FALKIRK, . .	33,574	34,100	30	26	56	51	5	17	30	19	49	6	0	43
AYR, . .	32,986	33,100	22	32	54	51	3	23	24	27	51	6	4	49
TOTAL . . (SIXTEEN TOWNS)	2,246,033	2,401,800	2170	2211	4381	4041	340	1574	1897	1714	3611	284	226	3553

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, APRIL 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popula- tion.	DEATH-RATES PER 1000 of POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.	
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.	Number.	* Rate per 1000 Births.
				Uncor- rected.	Cor- rected.						
GLASGOW, . .	24·4	7·7	8·3	19·4	18·9	3·2	2·3	1·5	3·6	348	156
EDINBURGH, . .	17·5	11·3	9·1	21·3	20·7	4·9	1·8	1·2	3·4	83	172
DUNDEE, . .	17·6	9·8	7·5	14·8	14·8	0·7	2·5	1·5	2·0	28	95
ABERDEEN, . .	18·9	8·9	7·7	16·0	14·8	0·9	1·4	1·0	2·7	26	91
PAISLEY, . .	20·9	8·4	7·6	20·5	19·3	2·2	2·8	1·6	3·1	25	152
LEITH, . .	20·4	5·0	6·6	16·2	21·0	4·8	1·8	1·2	2·2	26	183
GREENOCK, . .	30·1	4·1	8·1	16·8	16·2	2·0	2·9	1·7	3·2	17	92
PERTH, . .	16·5	10·4	8·9	15·8	13·8	0·7	1·7	1·0	2·8	4	80
TOTAL . . (EIGHT TOWNS)	22·0	8·1	8·2	18·8	18·4	3·0	2·2	1·4	3·3	557	145
COATBRIDGE, . .	28·9	4·8	6·0	16·2	16·5	1·4	3·0	1·4	3·3	8	79
MOTHERWELL, . .	26·0	3·3	4·6	15·6	17·4	1·4	2·9	2·0	5·8	15	158
KIRKCALDY, . .	17·5	11·9	6·2	12·5	13·4	2·1	0·9	0·6	1·5	10	154
HAMILTON, . .	29·0	2·2	6·3	17·0	16·1	1·9	1·9	1·3	3·8	8	89
CLYDEBANK, . .	24·3	2·2	6·8	9·4	11·2	0·0	1·0	0·5	1·0	11	103
KILMARNOCK, . .	19·4	10·2	7·6	16·8	16·1	1·6	1·0	0·7	2·3	7	104
FALKIRK, . .	20·0	8·9	6·1	17·5	15·3	1·4	3·2	2·1	2·5	6	102
AYR, . .	19·8	5·6	8·4	18·7	18·0	1·8	1·5	0·4	2·2	3	53
TOTAL . . (SIXTEEN TOWNS)	22·2	7·8	8·0	18·3	18·0	2·8	2·1	1·4	3·2	625	140

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR APRIL 1917, and for the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL TOWNS.

MONTH. (1)	Birth-Rate. (2)	Illegitimate Birth-rate per 100 Births. (3)	Marriage-Rate. (4)	Death-Rate. (5)	DEATHS FROM								* Infantile Mortality Rate. (18)	Mean Temperature. (Eight Towns only.) (14)
					Enteric Fever. (6)	Smallpox. (7)	Measles. (8)	Scarlet Fever. (9)	Whooping-Cough. (10)	Diphtheria and Croup. (11)	Diarrhoea (Under 2 Years). (12)			
APR. 1917, .	22·2	7·8	8·0	18·0	3	0	239	5	244	27	33	140	41°·0	
APR. 1916, .	24·6	6·4	8·0	17·1	4	0	141	39	40	30	44	116	45°·3	
APR. 1915, .	28·3	7·5	9·1	20·3	8	0	140	33	361	37	58	155	45°·4	
APR. 1914, .	28·8	6·8	10·6	16·4	10	0	107	20	52	31	51	110	48°·5	
APR. 1913, .	29·3	6·3	9·4	17·4	12	0	66	13	166	30	52	111	44°·8	
APR. 1912, .	31·2	6·3	10·2	16·8	3	0	195	19	57	25	40	117	47°·4	
APR. 1911, .	26·4	7·0	9·5	18·2	4	0	33	9	183	25	31	123	45°·4	
APR. 1910, .	29·4	6·9	7·9	19·5	2	0	254	21	27	28	69	140	43°·3	
APR. 1909, .	31·1	6·9	8·3	19·5	16	0	17	17	224	29	61	135	45°·7	
APR. 1908, .	32·1	7·1	10·0	19·9	3	0	147	20	74	22	-	144	42°·1	
APR. 1907, .	32·4	6·9	11·6	22·2	17	0	45	9	224	19	-	147	44°·8	

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-18 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—April 1917.

CAUSES OF DEATH.	All Ages.	Age.														
		-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-				
Enteric Fever	—	—	—	—	—	—	—	—	—	—	—	—	—			
Typhus Fever	—	—	—	—	—	—	—	—	—	—	—	—	—			
Small-pox	—	—	—	—	—	—	—	—	—	—	—	—	—			
Measles	—	—	—	—	—	—	—	—	—	—	—	—	—			
Scarlet Fever	—	—	—	—	—	—	—	—	—	—	—	—	—			
Whooping-cough	—	—	—	—	—	—	—	—	—	—	—	—	—			
Diphtheria and Croup	—	—	—	—	—	—	—	—	—	—	—	—	—			
Influenza	—	—	—	—	—	—	—	—	—	—	—	—	—			
Erysipelas	—	—	—	—	—	—	—	—	—	—	—	—	—			
Phthisis, Pulmonary Tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Tuberculous Meningitis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Abdominal Tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Tuberculous Diseases	—	—	—	—	—	—	—	—	—	—	—	—	—			
Cancer, Malignant Disease	—	—	—	—	—	—	—	—	—	—	—	—	—			
Rheumatic Fever	—	—	—	—	—	—	—	—	—	—	—	—	—			
Meningitis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Organic Heart Disease	—	—	—	—	—	—	—	—	—	—	—	—	—			
Bronchitis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Pneumonia (all forms)	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Diseases of Respiratory Organs	—	—	—	—	—	—	—	—	—	—	—	—	—			
Diarrhoea and Enteritis (under 2 years)	—	—	—	—	—	—	—	—	—	—	—	—	—			
Appendicitis and Typhlitis	—	—	—	—	—	—	—	—	—	—	—	—	—			
All Liver Diseases (not Malignant)	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Diseases of Digestive System	—	—	—	—	—	—	—	—	—	—	—	—	—			
Nephritis and Bright's Disease	—	—	—	—	—	—	—	—	—	—	—	—	—			
Puerperal Sepsis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Diseases & Accidents of Pregnancy & Parturition	—	—	—	—	—	—	—	—	—	—	—	—	—			
Congenital Debility and Malformation, including Pre-mature Birth	—	—	—	—	—	—	—	—	—	—	—	—	—			
Violent Deaths, excluding Suicide	—	—	—	—	—	—	—	—	—	—	—	—	—			
Suicide	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Defined Diseases	—	—	—	—	—	—	—	—	—	—	—	—	—			
Diseases Ill-defined or Unknown	—	—	—	—	—	—	—	—	—	—	—	—	—			
All Causes	—	—	—	—	3553	625	597	113	57	131	166	224	306	455	468	411

Causes of Death

DEATHS IN EACH TOWN (corrected for Transfers)—April 1917.

CAUSES OF DEATH.		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever	...	2	...	...	...	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...
Measles	...	130	70	5	3	10	9	1	1
Scarlet Fever	...	2	1	...	1	...	...	...	...
Whooping-cough	...	135	52	5	5	3	20	9	1
Diphtheria and Croup	...	11	5	5	...	1	2	2	...
Influenza	...	4	1	...	1	...	...	1	...
Erysipelas	...	2	...	...	3	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	141	34	23	13	12	8	11	3
Tuberculous Meningitis	...	26	10	5	1	2	1	2	1
Abdominal Tuberculosis	...	25	3	7	2	3	3	4	1
Other Tuberculous Diseases	...	17	3	3	3	4	...	2	...
Cancer, Malignant Disease	...	87	32	17	13	10	10	7	...
Rheumatic Fever	...	3	1	1	1	...	1	...	...
Meningitis	...	12	2	2	1	1	1	1	...
Organic Heart Disease	...	113	49	34	26	15	12	12	7
Bronchitis	...	119	35	19	17	12	6	6	3
Pneumonia (all forms)	...	178	47	11	15	11	7	13	5
Other Diseases of Respiratory Organs	...	32	12	5	5	...	2	2	...
Diarrhoea and Enteritis (under 2 years)	...	14	5	1	3	2	2	1	...
Appendicitis and Typhlitis	...	3	4	...	1	1	...	1	1
All Liver Diseases (not Malignant)	...	10	7	1	...	1	2	...	...
Other Diseases of Digestive System	...	45	18	3	6	6	4	1	...
Nephritis and Bright's Disease	...	78	13	6	8	4	3	2	...
Puerperal Sepsis	...	4	2	...	...	...	1	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	14	2	1	1	...	...	1	...
Congenital Debility and Malformation, including Premature Birth	...	95	11	13	8	11	8	5	1
Violent Deaths, excluding Suicide	...	45	16	7	8	5	2	...	...
Suicide	...	2	1	1	...	...	...	...	1
Other Defined Diseases	...	328	122	54	57	27	39	19	14
Diseases Ill-defined or Unknown	...	55	6	5	...	1	...	3	1
All Causes	...	1732	564	224	202	142	143	106	40
AGE AT DEATH.									
Under 1	...	348	83	28	26	25	26	17	4
1- 4	...	308	120	25	15	15	25	17	6
5- 9	...	69	11	5	5	5	4	2	1
10-14	...	28	4	4	8	2	3	...	2
15-24	...	62	15	7	11	8	6	4	...
25-34	...	88	19	7	9	7	3	9	3
35-44	...	110	37	17	20	10	4	5	1
45-54	...	146	51	34	17	9	9	8	2
55-64	...	203	60	34	26	23	20	22	9
65-74	...	219	81	31	23	22	26	14	3
75 and over	...	151	83	32	42	16	17	8	9
All Ages	...	1732	564	224	202	142	143	106	40

DEATHS IN EACH TOWN (corrected for Transfers)—April 1917—continued.

CAUSES OF DEATH.												
					Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.
Enteric Fever	...	...	...	...	...	...	...	...	...	1	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	6	1	...	...	...	...	3
Scarlet Fever	...	...	...	...	...	1	...	...	...	...	...	...
Whooping-cough	...	...	...	...	4	3	5	...	...	1	4	2
Diphtheria and Croup	...	...	...	...	...	1	...	1	...	...	...	...
Influenza	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	1	...	...	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	...	...	...	5	7	2	4	2	2	6	1
Tuberculous Meningitis	...	...	...	...	2	1	...	...	2	...	2	2
Abdominal Tuberculosis	...	...	...	...	3	1	1	2	...	...	...	1
Other Tuberculous Diseases	...	...	...	...	1	1	...	...	...	1	1	...
Cancer, Malignant Disease	...	...	...	...	4	2	2	4	1	5	3	5
Rheumatic Fever	...	...	...	...	...	...	...	...	...	1	...	...
Meningitis	...	...	...	...	1	...	...	...	3	...	...	...
Organic Heart Disease	...	...	...	...	8	3	9	3	5	2	4	4
Bronchitis	...	...	...	...	6	13	3	4	2	1	3	1
Pneumonia (all forms)	...	...	...	...	6	6	2	7	2	4	3	4
Other Diseases of Respiratory Organs	...	...	...	...	...	1	...	1	...	2	1	1
Diarrhoea and Enteritis (under 2 years)	...	...	...	...	1	...	1	...	...	3	...	...
Appendicitis and Typhlitis	...	...	...	...	...	...	...	1	1	...	...	1
All Liver Diseases (not Malignant)	...	...	...	...	2	2	1	...	...	4	...	2
Other Diseases of Digestive System	...	...	...	...	...	...	...	1	1	1	1	1
Nephritis and Bright's Disease	...	...	...	...	...	...	...	...	2	...	...	...
Puerperal Sepsis	...	...	...	...	...	...	...	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	...	...	...	...	...	...	...	...	...
Congenital Debility and Malformation, including Premature Birth	...	...	...	...	2	1	3	4	7	...	...	1
Violent Deaths, excluding Suicide	...	...	...	...	...	...	1	3	2	2	1	4
Suicide	...	...	...	...	...	...	...	...	...	...	...	2
Other Defined Diseases	...	...	...	...	12	16	14	8	12	16	14	12
Diseases Ill-defined or Unknown	...	...	...	...	2	1	...	2	1	3	...	1
All Causes	...	60	60	45	51	43	49	43	43	49	49	
AGE AT DEATH.												
Under 1	...	...	...	...	8	15	10	8	11	7	6	3
1- 4	...	...	...	...	8	10	5	13	6	5	7	12
5- 9	...	...	...	...	...	2	1	1	1	2	2	2
10-14	...	...	...	...	3	...	1	1	...	...	...	1
15-24	...	...	...	...	3	4	2	1	4	1	2	1
25-34	...	...	...	...	4	3	2	3	4	1	2	2
35-44	...	...	...	...	3	6	2	4	1	1	2	1
45-54	...	...	...	...	6	4	1	6	1	3	5	4
55-64	...	...	...	...	13	7	6	6	6	9	4	7
65-74	...	...	...	...	8	7	5	3	5	11	5	5
75 and over	...	...	...	...	4	2	10	5	4	9	8	11
All Ages	...	60	60	45	51	43	49	43	43	49	49	

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,
During the Month of APRIL 1917.

OBSERVERS.	BARO-METER.		AIR TEMPERATURE.		HYGROMETER.		RAIN, AND OTHER FORMS OF PRECIPITATION.		WIND DIRECTIONS.						
									Number of Observations at 9 A.M. and 9 P.M.						
			Mean of A and B (Mean Temperature).		Absolute Maximum and Minimum.		Mean at 9 A.M. and 9 P.M.								
			Day of Month.		Total Fall.		Number of Days.								
	feet.	inch.	Dry Bulb.	Vapour Pressure.	Depression of Wet Bulb.	Humidity.	Difference from Average.	Day of Month.	Day of Month.	Maximum	Minimum.	Mean of A and B (Mean Temperature).	Mean at 9 A.M. and 9 P.M.	Number of Days.	
	at Station and 32°.	Mean at Sea-Level and 32°.	Mean of	Minimum (B.)	Maximum (A.)	Day of Month.	Difference from Average	Day of Month.	Day of Month.	Absolute Maximum and Minimum.	Day of Month.	Mean at 9 A.M. and 9 P.M.	Number of Days.	Calm or Variable.	
GLASGOW, The Observatory.	184	29.640	29.846	46.8	35.7	41.3	-3.7	61	22nd	21	2nd	40.5	2.7	•	inch. per cent.
EDINBURGH, Professor R. A. Sampson, F.R.S., Royal Observatory.	441	29.341	29.829	45.8	34.1	40.0	-3.8	60	22nd	20	1, 2	39.2	2.4	•	12 79
DUNDEE, Alex. Macrae, Curator of Cemeteries.	164	29.641	29.825	47.7	34.0	40.9	-3.2	65	22nd	21	1st	39.8	1.7	•	1.22 0.86
ABERDEEN,* The Meteorological Office.	90	29.699	29.801	46.6	33.9	40.3	-3.4	60	22nd	22	2nd	40.1	2.0	•	4 10
PAISLEY, The Coats Observatory.	107	29.739	29.859	49.7	35.4	42.6	-3.6	65	22nd	20	2nd	41.9	3.0	•	0.17 6
LEITH,† James Bolam, Navigation School.	76	29.745	29.831	47.2	35.4	41.3	-4.1	62	22nd	22	2nd	41.0	2.3	•	1.20 13
GREENOCK, Daniel Macalister, C.E., Greenock Waterworks.	233	29.574	29.842	46.2	35.7	41.0	-3.6	58	22nd	22	2nd	40.6	3.3	•	1.17 9
PERTH, Henry Coates, F.R.S.E.,	62	29.752	29.822	48.7	33.6	41.2	-3.3	63	22nd	19	1st	41.5	3.1	•	0.27 13
Means	170	29.641	29.832	47.3	34.7	41.0	-3.6	40.6	2.6	•	0.57 12

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North Latitude.—Glasgow, 55° 51'; Edinburgh, 56° 28'; Dundee, 56° 55'; Aberdeen, 57° 9'; Paisley, 55° 58'; Leith, 55° 51'; Greenock, 55° 57'; Perth, 56° 23'; Mean, 56° 11'. West Longitude.—Glasgow, 4° 13'; Edinburgh, 4° 27'; Dundee, 2° 57'; Aberdeen, 2° 7'; Paisley, 2° 11'; Greenock, 3° 8'; Perth, 3° 46'; Greenock, 4° 46'; Mean, 3° 25'. At King's College, at 7 A.M. and 9 P.M.

FOR OFFICIAL USE.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

MAY 1917.

Published by Authority of the Registrar-General.

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To be purchased from H.M. STATIONERY OFFICE (Scottish Branch), 23 Forth Street, Edinburgh.

REPORT.

During the month of May 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the 1911 Census had populations of over 30,000, the births of 4378 living children, of whom 2198 were male and 2180 were female. The male children are 28 more than in the previous month, but 551 fewer than in May of last year. The female children are 31 fewer than in the previous month, and 530 fewer than in May of last year. The total children are 3 fewer than in the previous month, 198 more than the mean of the numbers for the three preceding months, and 1081 fewer than in May of last year. The equivalent annual birth-rate is 21.5 per thousand of the estimated aggregate population. This rate is 0.7 below that for the preceding month, 0.1 above the mean of the rates for the three preceding months, and 5.7 below that for May of last year. In the towns taken individually this rate ranged from 31.4 in Coatbridge, 31.2 in Greenock, and 28.4 in Ayr, to 12.3 in Perth, 17.2 in Edinburgh and in Paisley, and 17.3 in Leith. In Clydebank it was 28.0; in Hamilton, 24.1; in Glasgow, 22.9; in Motherwell, 22.7; in Aberdeen, 20.4; in Kirkcaldy, 18.7; in Dundee, 18.6; in Falkirk, 17.9; and in Kilmarnock, 17.5.

Of the 4378 children whose births were registered, 4025, or 91.9 per cent., were legitimate, and 353, or 8.1 per cent., were illegitimate. The illegitimate children are 13 more than in the previous month, 15 more than the mean of the numbers for the three preceding months, but 26 fewer than for May of last year. The illegitimate rate is 0.3 more than that for the previous month, the same as the mean of the rates for the three preceding months, and 1.2 more than that for the corresponding month of last year. In the towns taken individually this rate ranged from 12.5 in Aberdeen, 12.0 in Dundee, and 10.8 in Perth, to 1.5 in Paisley, and 2.5 in Coatbridge and in Hamilton. In Edinburgh this rate was 10.1; in Falkirk, 9.6; in Kirkcaldy, 9.2; in Ayr, 8.8; in Glasgow, 8.3; in Leith and in Motherwell, 4.9; in Greenock, 3.8; and in Clydebank and in Kilmarnock, 3.6.

Marriages registered during the month numbered 954. They are 620 fewer than in the previous month, 355 fewer than the mean for the three preceding months, and 184 fewer than in May of last year. The equivalent annual marriage-rate is 4.7 per thousand. It is 3.3 below that for the previous month, 2.0 below

the mean of the rates for the three preceding months, and 1·0 below that for May of last year. In the towns taken individually this rate ranged from 6·8 in Aberdeen, 5·4 in Edinburgh, and 5·1 in Glasgow, to 1·0 in Clydebank, 1·4 in Falkirk, and 2·2 in Motherwell. In Dundee and in Kirkcaldy it was 4·9; in Ayr, 4·3; in Hamilton, 3·7; in Perth, 3·3; in Leith, 3·0; in Coatbridge and in Kilmarnock, 2·9; in Paisley, 2·8; and in Greenock, 2·7.

Deaths registered in these towns numbered 3432, of which 1822 were of males and 1610 of females. These deaths include those of 300 persons with usual residence outwith the town of registration, but they exclude those of 210 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 90, falls to be deducted to get the corrected number of deaths for the month, which is thus found to be 3342. This number is 211 fewer than in the previous month, and 168 fewer than the mean of the numbers for the three preceding months, but is 273 more than in the corresponding month of last year.

The death-rate for the month, corrected, is 16·4 per thousand. It is 1·6 below that for the previous month, the same amount below the mean of the rates for the three preceding months, but is 1·1 more than in May of last year. In the towns taken individually this rate ranged from 19·9 in Leith, 17·5 in Glasgow, and 17·2 in Paisley, to 11·2 in Motherwell, 11·4 in Clydebank, and 13·0 in Kilmarnock. In Hamilton it was 16·8; in Edinburgh, 16·7; in Ayr, 16·3; in Coatbridge, 15·4; in Aberdeen, 15·3; in Greenock, 15·1; in Kirkcaldy, 15·0; in Perth, 13·7; in Dundee, 13·3; and in Falkirk, 13·1.

Deaths of children of less than one year old numbered 579. They are 46 fewer than in the previous month, 9 fewer than the mean of the numbers for the three preceding months, but 66 more than in May of last year. They are equal to an infantile mortality rate of 128 per thousand of the average number of births registered monthly in these towns during the preceding twelve months. This rate is 12 less than in the previous month, 4 less than the mean of the rates for the three preceding months, but 18 more than that for May of last year. In the towns taken individually this rate ranged from 175 in Leith, 142 in Glasgow, and 134 in Paisley, to 42 in Motherwell, 59 in Kilmarnock, and 74 in Kirkcaldy and in Clydebank. In Coatbridge it was 132; in Hamilton, 125; in Edinburgh, 124; in Dundee, 121; in Ayr, 115; in Aberdeen, 107; in Greenock, 105; in Falkirk, 100; and in Perth, 83.

Deaths from the principal epidemic diseases numbered 623, and included 3 from enteric fever, 277 from measles, 16 from scarlet fever, 257 from whooping-cough, 27 from diphtheria, and 43 from the diarrhoeas of childhood. These deaths collectively are 72 more than in the previous month, 236 more than the mean of the numbers for the three preceding months, and 350 more than in May of last year. Deaths from measles are 38 more than in the previous month, and those from whooping-cough are 13 more. The monthly death-rate from the principal epidemic diseases is 3·1 per thousand. It is 0·3 above that for the previous month, 1·1 more than the mean for the three preceding months, and 1·7 more than that for May of last year. The rate ranged from 4·2 in Edinburgh and in Paisley, to 0 in Ayr. In Glasgow it was 3·9; in Dundee, 0·4; and in Aberdeen, 1·3.

Deaths from pneumonia numbered 283, being 38 fewer than in the previous month. Deaths from bronchitis numbered 195, being 55 fewer than in the previous month.

Deaths from all forms of tuberculosis numbered 426, of which 264 were ascribed to phthisis. The total deaths from tuberculosis are 3 more than in the previous month, but 28 fewer than in May of last year. Those from phthisis are 10 fewer than in the previous month, and 53 fewer than in May of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
Meteorological Society.

MAY 1917.

Mean barometric pressure, 30·012 in.; greater than the average of 1881–1915 by 0·064 in.

Mean temperature, 49°·6; less by 0°·1.

Mean daily range of temperature, 13°·4; less by 1°·5.

Rain, number of days, 14; less by 1 day.

Rain, depth in inches, 2·43; greater by 0·05 in.

Wind, direction of: a 7 days' excess of winds from between N.E. and S.E.

Hence the month was characterised by a somewhat high mean pressure; a mean temperature practically equal to the normal, with a low mean daily range; a mean rainfall practically equal to the normal; and a large excess of winds from an easterly quarter.

During the first few days pressure over our area was anticyclonic, except in the extreme north; during the second week depressions crossed our Islands from the Atlantic, whilst an anticyclone was dominant over Iceland; and towards the end of the month the distribution was irregular, but as a rule of a southerly type. The mean value was 30·012 in., or 0·064 in. above the normal, and at Leith, at sea-level, pressure was above 30 in. from 1st to 7th, from 9th to 12th, from 15th to 17th, and on 25th and 26th, the extremes there being 30·39 in. on morning of 6th, and 29·66 in. on evening of 31st. The range for the month was thus very moderate.

The fine weather which had been experienced during the last ten days or so of April continued throughout the first few days of May, and at one or two places highest readings for the month occurred on 3rd or 4th. From about 5th to 12th or 14th, however, a cold and wet easterly type of conditions prevailed, with some decidedly low day temperatures, and during the third week also the thermometer, except in some western districts, remained for the most part below the normal. Thereafter some very warm days occurred, especially from 25th to 28th, with high night readings on 26th and 27th. In various districts the mean temperature of the month was decidedly above the normal. For the chief towns the mean was 49°·6, or 0·1 below the normal; the days were 0°·8 below, and the nights 0°·7 above their respective averages; and the extremes were 74° at Greenock, Paisley and Perth on 4th or 28th, and 28° at Perth on 6th. Elsewhere Nairn recorded 79° on 28th, West Linton 22° on 7th, and Kingussie 21° on 6th.

After rainless weather nearly everywhere during the first six days, moderate to rather heavy falls were more or less general from 7th to 14th, with fully 1 in. at Ruthwell on 14th. Between 18th and 22nd conditions were again unsettled, whilst during the last few days some heavy falls were experienced in short periods during thunderstorms,—1 in. or more at Ardtornish and Colmonell on 27th, at Glasgow on 28th, and at Crieff on 29th. The month's aggregates were above the normal in some inland districts, and towards south-west and south,—at Rothesay by about 75 per cent. At Fort William the amount was only about half the normal, and along the East Coast there was in general a slight to decided shortage. The mean for the chief towns was 2·43 in., or 2 per cent. above the normal.

Snow fell in some northern districts between 8th and 10th, and at Fort Augustus on 8th the hills were covered with snow down to the edge of Loch Ness.

Thunderstorms occurred towards the north-west on 12th; at one or two points on 25th; and rather widely on 26th, 27th, 28th or 29th. At Glasgow on 28th and at Crieff on 29th, flooding occurred as a result of brief rainfalls of considerable intensity.

Sunshine amounts were below the normal,—at Edinburgh and Glasgow by an average of about 1½ hours per day. There were a few very sunny days,—14 hours or more at Aberdeen on 3rd, 16th and 28th, and at Glasgow on 16th,—but the second week was extremely gloomy, and at Edinburgh no sunshine was recorded from 8th to 12th.

NOTE.—For meteorological table see p. 40.

TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, MAY 1917.

TOWNS.	POPULATION.		BIRTHS.						DEATHS.					
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	MARRIAGES.	Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW, . .	1,008,487	1,115,800	1096	1078	2174	1994	180	483	962	760	1722	122	58	1658
EDINBURGH, . .	320,769	331,800	232	252	484	435	49	152	250	258	508	86	49	471
DUNDEE, . .	176,085	184,300	144	147	291	256	35	76	97	118	215	15	8	208
ABERDEEN, . .	163,891	165,700	142	145	287	251	36	96	128	96	224	17	9	216
PAISLEY, . .	84,455	89,700	75	56	131	129	2	21	80	60	140	13	4	131
LEITH, . .	80,601	82,800	55	67	122	116	6	21	55	57	112	.4	32	140
GREENOCK, . .	75,140	79,600	108	103	211	203	8	18	55	54	109	7	0	102
PERTH, . .	35,854	35,400	16	21	37	33	4	10	23	28	51	11	1	41
TOTAL . . (EIGHT TOWNS)	1,945,282	2,085,100	1868	1869	3737	3417	320	877	1650	1431	3081	275	161	2967
COATBRIDGE, . .	43,290	44,300	60	58	118	115	3	11	30	28	58	4	4	58
MOTHERWELL . .	40,380	42,000	39	42	81	77	4	8	19	18	37	1	4	40
KIRKCALDY . .	39,601	40,900	37	28	65	59	6	17	19	24	43	0	9	52
HAMILTON, . .	38,644	38,600	41	38	79	77	2	12	30	20	50	2	7	55
CLYDEBANK, . .	37,548	46,700	64	47	111	107	4	4	16	19	35	0	10	45
KILMARNOCK, . .	34,728	37,000	24	31	55	53	2	9	19	20	39	4	6	41
FALKIRK, . .	33,574	34,100	28	24	52	47	5	4	15	22	37	5	6	38
AYR, . .	32,986	33,100	37	43	80	73	7	12	24	28	52	9	3	46
TOTAL . . (SIXTEEN TOWNS)	2,246,033	2,401,800	2198	2180	4378	4025	353	954	1822	1610	3432	300	210	3342

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, MAY 1917.

TOWNS.	Birth- Rate per 1000 of Popula- tion.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 of POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.			
				All Causes.		Princi- pal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.				
				Uncor- rected.	Cor- rected.								
GLASGOW, . .	22.9	8.3	5.1	18.2	17.5	3.9	2.1	1.4	2.9	321	142		
EDINBURGH, . .	17.2	10.1	5.4	18.0	16.7	4.2	2.0	1.3	2.4	61	124		
DUNDEE, . .	18.6	12.0	4.9	13.7	13.3	0.4	2.4	1.2	1.4	36	121		
ABERDEEN, . .	20.4	12.5	6.8	15.9	15.3	1.3	2.6	1.5	2.6	31	107		
PAISLEY, . .	17.2	1.5	2.8	18.4	17.2	4.2	2.0	0.5	1.6	22	134		
LEITH, . .	17.3	4.9	3.0	15.9	19.9	4.0	2.7	1.6	2.8	25	175		
GREENOCK, . .	31.2	3.8	2.7	16.1	15.1	3.1	3.3	2.4	1.5	20	105		
PERTH, . .	12.3	10.8	3.3	17.0	13.7	0.3	1.7	1.3	2.3	4	83		
TOTAL . . (EIGHT TOWNS)	21.1	8.6	5.0	17.4	16.8	3.3	2.2	1.4	2.6	520	134		
COATBRIDGE, . .	31.4	2.5	2.9	15.4	15.4	1.9	1.1	0.3	2.9	14	132		
MOTHERWELL, . .	22.7	4.9	2.2	10.4	11.2	2.0	1.1	0.8	2.5	4	42		
KIRKCALDY, . .	18.7	9.2	4.9	12.4	15.0	0.9	2.6	1.7	1.4	5	74		
HAMILTON, . .	24.1	2.5	3.7	15.2	16.8	1.8	1.2	0.6	2.7	11	125		
CLYDEBANK, . .	28.0	3.6	1.0	8.8	11.4	1.0	1.0	1.0	2.3	8	74		
KILMARNOCK, . .	17.5	3.6	2.9	12.4	13.0	1.0	0.6	0.6	2.2	4	59		
FALKIRK, . .	17.9	9.6	1.4	12.8	13.1	1.4	1.0	0.3	1.7	6	100		
AYR, . .	28.4	8.8	4.3	18.5	16.3	0.0	2.1	1.4	1.1	7	115		
TOTAL . . (SIXTEEN TOWNS)	21.5	8.1	4.7	16.8	16.4	3.1	2.1	1.3	2.5	579	128		

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR MAY 1917, and for the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL TOWNS.

MONTH.	Birth-Rate.	Illegitimate Birth-rate per 100 Births.	Marriage-Rate.	DEATHS FROM										* Infantile Mortality Rate.	Mean Temperature (Eight Towns only.)
				(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	(15)	(16)
MAY 1917, .	21·5	8·1	4·7	16·4	3	0	277	16	257	27	43	128	49°·6		
MAY 1916, .	27·2	6·9	5·7	15·3	1	0	133	26	56	22	35	110	49°·3		
MAY 1915, .	25·3	6·7	6·2	17·5	2	0	235	30	215	31	50	132	48°·3		
MAY 1914, .	27·1	6·6	3·4	15·2	5	0	104	21	72	22	42	105	50°·2		
MAY 1913, .	27·6	6·6	3·5	16·5	9	0	148	22	169	34	71	116	50°·0		
MAY 1912, .	28·4	7·4	3·1	15·7	7	0	125	14	57	22	53	107	51°·0		
MAY 1911, .	29·7	7·4	4·5	17·5	7	1	50	17	186	16	33	134	53°·2		
MAY 1910, .	29·6	7·6	4·6	16·7	3	0	184	20	36	14	43	111	49°·9		
MAY 1909, .	29·0	6·9	4·2	17·7	2	0	25	20	153	23	50	121	50°·1		
MAY 1908, .	29·4	6·7	4·0	16·9	3	0	80	15	60	14	-	120	52°·0		
MAY 1907, .	30·9	6·4	3·7	20·1	11	0	36	13	192	15	-	123	48°·0		

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—May 1917.

CAUSES OF DEATH.		All Ages.	Age.										
			-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-
Enteric Fever	- - - - -	3	-	-	-	1	-	1	-	1	-	-	-
Typhus Fever	- - - - -	-	-	-	-	-	-	-	-	-	-	-	-
Small-pox	- - - - -	-	-	-	-	-	-	-	-	-	-	-	-
Measles	- - - - -	277	65	194	16	-	-	-	-	1	1	-	-
Scarlet Fever	- - - - -	16	1	9	6	-	-	-	-	-	-	-	-
Whooping-cough	- - - - -	257	71	173	12	-	-	-	-	-	1	-	-
Diphtheria and Croup	- - - - -	27	3	18	4	2	-	-	-	-	-	-	-
Influenza	- - - - -	3	-	-	-	-	1	-	-	-	-	2	-
Erysipelas	- - - - -	4	1	-	-	-	-	-	-	-	-	2	1
Phthisis, Pulmonary Tuberculosis	- - - - -	264	1	3	8	15	65	53	56	33	26	2	2
Tuberculous Meningitis	- - - - -	54	6	31	5	6	5	1	-	-	-	-	-
Abdominal Tuberculosis	- - - - -	59	4	30	12	3	5	1	4	-	-	-	-
Other Tuberculous Diseases	- - - - -	49	3	10	2	2	10	8	5	3	4	2	-
Cancer, Malignant Disease	- - - - -	222	-	-	1	-	2	6	20	48	58	61	26
Rheumatic Fever	- - - - -	6	-	-	1	1	3	1	-	-	-	-	-
Meningitis	- - - - -	38	10	13	4	3	-	1	-	-	1	-	1
Organic Heart Disease	- - - - -	247	3	1	3	3	3	12	23	35	51	77	36
Bronchitis	- - - - -	195	21	18	1	1	1	4	11	15	35	51	37
Pneumonia (all forms)	- - - - -	283	58	76	9	9	11	13	14	28	30	17	18
Other Diseases of Respiratory Organs	- - - - -	34	3	6	2	-	1	2	2	2	7	4	5
Diarrhea and Enteritis (under 2 years)	- - - - -	43	33	10	-	-	-	-	-	-	-	-	-
Appendicitis and Typhlitis	- - - - -	22	-	1	2	3	6	2	2	2	1	2	1
All Liver Diseases (not Malignant)	- - - - -	12	-	-	-	-	-	2	-	1	5	3	1
Other Diseases of Digestive System	- - - - -	107	17	8	5	1	4	5	7	16	22	15	7
Nephritis and Bright's Disease	- - - - -	121	2	-	1	1	4	9	16	23	38	15	12
Puerperal Sepsis	- - - - -	5	-	-	-	-	1	1	3	-	-	-	-
Other Diseases & Accidents of Pregnancy & Parturition	- - - - -	23	-	-	-	-	5	12	6	-	-	-	-
Congenital Debility and Malformation, including Pre-mature Birth	- - - - -	200	197	2	-	-	1	-	-	-	-	-	-
Violent Deaths, excluding Suicide	- - - - -	79	6	6	6	2	9	5	11	16	4	4	10
Suicide	- - - - -	5	-	-	-	-	1	-	1	2	1	-	-
Other Defined Diseases	- - - - -	625	63	21	5	5	15	17	38	71	91	150	149
Diseases Ill-defined or Unknown	- - - - -	67	11	5	1	-	1	2	6	6	15	11	9
All Causes	- - - - -	3342	579	635	106	58	154	158	226	305	388	419	314

Causes of Death

DEATHS IN EACH TOWN (corrected for Transfers)—May 1917.

CAUSES OF DEATH.					Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever	...	...	...	...	...	...	...	...	...	1	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	170	68	1	7	16	7	...	1
Scarlet Fever	...	...	...	...	6	2	...	2	...	1	1	...
Whooping-cough	...	...	...	...	161	39	...	3	4	16	17	...
Diphtheria and Croup	...	...	...	...	11	7	3	1	3	1	1	...
Influenza	...	...	...	...	2	1	...	...	...	...	...	...
Erysipelas	...	...	...	...	3	...	...	1	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	...	...	...	129	37	19	21	4	11	16	4
Tuberculous Meningitis	...	...	...	...	22	5	5	6	4	4	1	...
Abdominal Tuberculosis	...	...	...	...	25	8	7	4	5	2	4	1
Other Tuberculous Diseases	...	...	...	...	24	5	7	5	2	2	1	...
Cancer, Malignant Disease	...	...	...	...	84	36	21	15	8	12	7	4
Rheumatic Fever	...	...	...	...	4	...	1	...	1	...	...	...
Meningitis	...	...	...	...	19	2	2	1	1	2	...	1
Organic Heart Disease	...	...	...	...	97	44	21	22	13	11	5	8
Bronchitis	...	...	...	...	103	30	9	13	2	5	4	2
Pneumonia (all forms)	...	...	...	...	156	32	12	21	8	13	5	5
Other Diseases of Respiratory Organs	...	...	...	...	18	7	1	3	2	2	1	...
Diarrhoea and Enteritis (under 2 years)	...	...	...	...	17	2	2	5	9	2	2	...
Appendicitis and Typhlitis	...	...	...	...	11	1	...	3	4	...	1	1
All Liver Diseases (not Malignant)	...	...	...	...	4	2	1	1	1	...	1	...
Other Diseases of Digestive System	...	...	...	...	46	18	8	8	4	5	3	1
Nephritis and Bright's Disease	...	...	...	...	71	10	10	6	3	4	2	2
Puerperal Sepsis	...	...	...	...	3	1	...	1	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	...	8	2	...	4	1	...	1	...
Congenital Debility and Malformation, including Premature Birth	...	...	...	...	95	24	19	12	2	4	8	3
Violent Deaths, excluding Suicide	...	...	...	...	43	3	5	5	2	4	3	...
Suicide	...	...	...	...	2	...	...	1	...	...	...	1
Other Defined Diseases	...	...	...	...	280	82	51	42	31	29	16	6
Diseases Ill-defined or Unknown	...	...	...	...	44	3	3	3	1	2	2	1
All Causes	...	1658	471	208	216	131	140	102	41			
AGE AT DEATH.												
Under 1	...	...	...	...	321	61	36	31	22	25	20	4
1-4	...	...	...	...	368	109	17	23	25	25	20	2
5-9	...	...	...	...	63	10	4	5	4	6	2	1
10-14	...	...	...	...	27	4	5	3	3	4	2	1
15-24	...	...	...	...	80	20	7	8	6	1	9	1
25-34	...	...	...	...	68	26	13	12	5	8	9	2
35-44	...	...	...	...	108	23	18	13	8	9	8	5
45-54	...	...	...	...	133	43	18	14	14	17	13	11
55-64	...	...	...	...	193	53	29	29	13	9	7	5
65-74	...	...	...	...	178	61	35	41	18	22	7	5
75 and over	...	...	...	...	119	61	26	37	13	14	5	4
All Ages	...	1658	471	208	216	131	140	102	41			

DEATHS IN EACH TOWN (corrected for Transfers)—May 1917—continued.

CAUSES OF DEATH.												
					Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.
Enteric Fever	...	...	...	...	...	1	...	...	...	1	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	4	2	1	1	1	...	...	...
Scarlet Fever	...	...	...	...	2	...	1	1	1	1	1	...
Whooping-cough	...	...	...	6	...	...	4	3	1	3	...	...
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	...	...	...
Influenza	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	1	3	6	2	4	2	4	2	1	4	...
Tuberculous Meningitis	...	2	1	1	2	...	...	...	...	1	...	...
Abdominal Tuberculosis	...	1	...	1	...	...	...	...	...	...	1	1
Other Tuberculous Diseases	...	...	...	...	1	1	...	...	...	...	1	1
Cancer, Malignant Disease	...	5	1	3	4	9	6	6	2	2	5	...
Rheumatic Fever	...	...	...	...	...	...	...	...	...	...	...	...
Meningitis	...	1	2	...	1	...	1	...	1	...	...	...
Organic Heart Disease	...	4	1	6	4	2	3	2	3	2	4	...
Bronchitis	...	4	6	4	5	4	2	2	2	1	1	...
Pneumonia (all forms)	...	7	3	1	4	5	5	5	5	4	2	2
Other Diseases of Respiratory Organs	...	...	...	...	...	...	...	...	...	...	...	...
Diarrhoea and Enteritis (under 2 years)	...	1	1	...	...	...	1	1	1	...	...	...
Appendicitis and Typhlitis	...	...	...	...	...	1	...	...	...	...	...	...
All Liver Diseases (not Malignant)	...	...	...	1	1	...	...	...	...	...	...	...
Other Diseases of Digestive System	...	2	1	1	3	1	2	2	2	2	2	2
Nephritis and Bright's Disease	...	2	3	1	1	2	3	3	3	...	1	...
Puerperal Sepsis	...	...	...	...	...	...	...	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	2	...	...	2	1	1	...	...	2	...	...
Congenital Debility and Malformation, including Premature Birth	...	10	2	3	5	1	3	3	3	3	6	6
Violent Deaths, excluding Suicide	...	2	1	2	3	3	3	3	...	2	1	...
Suicide	...	...	...	1	...	...	...	...	...	...	...	...
Other Defined Diseases	...	8	8	16	10	9	11	11	11	11	15	15
Diseases Ill-defined or Unknown	...	...	1	1	1	...	...	...	...	2	3	3
All Causes	...	58	40	52	55	45	41	38	41	38	46	46
AGE AT DEATH.												
Under 1	...	...	...	14	4	5	11	8	4	6	7	7
1-4	...	...	...	8	9	5	7	4	6	5	2	2
5-9	...	...	...	2	5	...	2	...	1	...	1	...
10-14	...	...	...	1	2	...	1	2	2	1	...	...
15-24	...	...	...	5	2	4	3	4	...	1	3	3
25-34	...	...	...	...	3	1	3	3	1	2	2	2
35-44	...	...	...	6	2	7	3	6	3	5	2	2
45-54	...	...	...	3	5	6	7	8	4	3	6	6
55-64	...	...	...	11	4	5	9	5	6	4	4	6
65-74	...	...	...	5	2	13	4	2	9	8	9	9
75 and over	...	...	...	3	2	6	5	3	5	3	3	8
All Ages	...	58	40	52	55	45	41	38	41	38	46	46

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,
During the Month of MAY 1917.

OBSERVERS.	BARO-METER.	AIR TEMPERATURE.				HYGROMETER.				RAIN, AND OTHER FORMS OF PRECIPITATION.				WIND DIRECTIONS.				
		Mean of		Absolute Maximum and Minimum.		Mean at 9 A.M. and 9 P.M.		Humidity.		Number of Days.		Number of Observations at 9 A.M. and 9 P.M.						
		Mean at Sea-Level and 32°.	Mean at Station and 32°.	Day of Month.	Minimum.	Dry Bulb.	Vapour Pressure.	Depression of Wet Bulb.	Day of Month.	Total Fall.	N	NE	E	SE	S	SW	W	NW
		feet.	inch.	°	°	°	°	°	°	inch.	inch.	per cent.	inch.	inch.	inch.	inch.	inch.	
GLASGOW, The Observatory.	184	29.788	29.990	57.1	44.4	50.8	+0.5	72	20th	34	6.7	49.7	2.9	·286	31	15	3.89 +1.30	
EDINBURGH, Professor R. A. SAMPSON, F.R.S., Royal Observatory.	441	29.527	30.011	54.7	42.7	48.7	+0.2	71	26, 27	34	7th	48.1	2.7	·271	81	14	1.47 -0.28	
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	164	29.844	30.024	56.5	41.5	49.0	-0.4	73	4th	33	6, 7	47.8	1.7	·291	88	14	1.69 -0.10	
ABERDEEN,* The Meteorological Office.	90	29.937	30.038	54.8	42.3	48.6	+0.4	66	25, 26	34	9th	49.0	2.8	·280	80	10	1.38 -0.95	
PAISLEY, The Coats Observatory.	107	29.890	30.009	58.5	44.2	51.4	-0.2	74	4, 28	32	7th	50.3	3.0	·290	80	15	2.91 +0.42	
LEITH,† JAMES BOLAM, Navigation School.	76	29.917	30.011	54.5	43.3	48.9	-1.2	70	3, 26	34	7th	48.3	2.2	·284	85	14	1.52 -0.59	
GREENOCK, DANIEL MACALISTER, C.E., Greenock Waterworks.	283	29.736	29.999	56.2	44.1	50.2	+0.4	74	28th	33	6th	49.0	2.7	·283	81	18	4.15 +0.70	
PERTH, HENRY COATES, F.R.S.E.,	62	29.959	30.027	57.7	40.9	49.3	-0.5	74	4th	28	6th	49.3	1.6	·311	89	15	2.15 -0.07	
Means	170	29.825	30.012	56.3	42.9	49.6	-0.1	..	..	..	..	48.9	2.5	·287	83	14	2.43 +0.05
North Latitude.—Glasgow, 55° 51'; Edinburgh, 56° 28'; Aberdeen, 55° 55'; Dundee, 55° 51'; Paisley, 57° 9'; Leith, 55° 51'; Greenock, 55° 58'; Perth, 56° 23'; Mean, 56° 11'.																		
West Longitude.—Glasgow, 4° 13'; Edinburgh, 3° 11'; Dundee, 2° 37'; Aberdeen, 2° 7'; Paisley, 4° 27'; Leith, 3° 8'; Greenock, 4° 46'; Perth, 3° 25'; Mean, 3° 32'.																		
At King's College, at 7 A.M. and 8 P.M.																		

FOR OFFICIAL USE.

MONTHLY RETURN

OF THE

BIRTHS, DEATHS, AND MARRIAGES IN SIXTEEN OF THE PRINCIPAL TOWNS OF SCOTLAND.

JUNE 1917.

Published by Authority of the Registrar-General.

EDINBURGH : PUBLISHED BY HIS MAJESTY'S STATIONERY OFFICE.

To be purchased from H.M. STATIONERY OFFICE (Scottish Branch), 23 Forth Street, Edinburgh.

REPORT.

During the month of June 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the date of the 1911 Census had populations of over 30,000, the births of 4223 living children, of whom 2223 were male and 2000 female. The male children are 25 more than registered in the previous month, but 272 fewer than in June of last year. The female children are 180 fewer than registered in the previous month, and 363 fewer than in June of last year. The total children registered are 155 fewer than in May, 124 less than the mean of the numbers of the three preceding months, and 635 fewer than in June of last year. The equivalent annual birth-rate is 21·4 per thousand of the estimated aggregate population. This rate is 0·1 less than that of the previous month, 0·2 less than the mean of those of the three preceding months, and 3·6 less than that of June of last year. In the towns taken individually the monthly birth-rate varied from 33·0 in Motherwell, 32·8 in Hamilton, and 27·1 in Greenock, to 15·8 in Kirkcaldy, 16·0 in Aberdeen, 16·5 in Dundee, and 16·8 in Edinburgh. In Coatbridge this rate was 25·3 ; in Clydebank, 24·3 ; in Glasgow, 23·5 ; in Leith, 21·4 ; in Ayr, 20·9 ; in Paisley, 20·6 ; in Kilmarnock, 18·7 ; in Perth, 17·2 ; and in Falkirk, 17·1.

Of the 4223 children whose births were registered, 3859, or 91·4 per cent., were legitimate, while 364, or 8·6 per cent., were illegitimate. The illegitimate children are 11 more than in the previous month, 20 more than the mean of the numbers of the three preceding months, but 5 fewer than in June of last year. The illegitimate rate is 0·5 more than that of the previous month, 0·7 more than the mean of those of the three preceding months, and 1·0 more than that of June of last year. In the towns taken individually the illegitimate rate ranged from 17·9 per cent. in Aberdeen, 17·5 in Ayr, 16·0 in Perth, and 14·8 in Dundee, to 0 in Clydebank, 0·9 in Motherwell, and 2·6 in Paisley. In Edinburgh this rate was 10·5 ; in Glasgow, 8·2 ; in Leith, 6·8 ; in Greenock, 6·8 ; in Falkirk, 6·3 ; in Kirkcaldy, 5·7 ; in Kilmarnock, 5·3 ; in Hamilton, 4·8 ; and in Coatbridge, 4·3.

Marriages registered in these towns during the month numbered 1914. They are 960 more than in the previous month, and 678 more than the mean of the numbers of the three preceding months, but are 41 fewer than in June of last year. The equivalent annual marriage-rate is 9·7 per thousand. It is 5·0 more than that of the previous month, and 3·5 more than the mean of those of the three preceding months, but is 0·4 less than that of June of last year. In the towns taken indi-

ividually this rate varied from 13·8 in Perth, 12·4 in Edinburgh, and 10·2 in Glasgow, to 4·9 in Kilmarnock, 5·5 in Clydebank, and 5·8 in Motherwell. In Coatbridge this rate was 9·6; in Aberdeen, 9·3; in Ayr, 9·2; in Dundee, 8·5; in Greenock, 8·3; in Kirkcaldy, 8·0; in Paisley, 7·9; in Leith, 7·3; in Falkirk, 7·1; and in Hamilton, 6·9.

Deaths registered in these towns numbered 2839, of which 1506 were of males and 1333 of females. These deaths include those of 224 persons with usual residence outwith the towns of registration, but exclude those of 193 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 31, falls to be deducted to get the corrected number for the month, which is thus found to be 2808. This number is 534 less than that for May, 659 less than the mean of those for March, April and May, but is 284 more than that for June of last year.

The death-rate of the month, corrected, is 14·2 per thousand. It is 2·2 less than that of May, and 3·0 less than the mean of those of the three preceding months, but is 1·2 more than that of June of last year. In the towns taken individually the monthly death-rate varied from 17·9 in Motherwell, 16·4 in Hamilton, and 15·1 in Glasgow, to 9·9 in Kilmarnock, 11·6 in Kirkcaldy, and 11·8 in Falkirk. In Aberdeen this rate was 14·5; in Ayr, 14·0; in Leith, 13·7; in Coatbridge, 13·5; in Edinburgh, 13·4; in Paisley, 13·4; in Perth, 13·1; in Greenock, 13·0; in Dundee, 12·7; and in Clydebank, 12·3.

Deaths of children of less than one year old numbered 430. They are 149 fewer than in the previous month, and 175 less than the mean of the numbers of the three preceding months, but 60 more than in June of last year. They are equal to an infantile mortality rate of 99 per thousand of the average number of births registered monthly during the preceding twelve months. This rate is 29 less than that of the previous month, and 34 less than the mean of those of the three preceding months, but is 17 more than that of June of last year. In the towns taken individually this rate varied from 153 in Hamilton, 128 in Perth, and 123 in Falkirk, to 62 in Kilmarnock, 65 in Kirkcaldy, and 69 in Ayr. In Aberdeen this rate was 114; in Clydebank, 107; in Glasgow, 106; in Paisley, 103; in Motherwell, 97; in Coatbridge, 88; in Leith, 87; in Edinburgh, 84; in Dundee, 82; and in Greenock, 71.

Deaths from the principal epidemic diseases numbered 466, and included 1 from enteric fever, 204 from measles, 6 from scarlet fever, 201 from whooping-cough, 20 from diphtheria, and 34 from the diarrhoeas of childhood. These deaths collectively are 157 fewer than in May, and 46 less than the mean of the numbers of March, April and May, but are 245 more than in June of last year. Deaths from measles are 73 fewer than in the previous month, from whooping-cough 56 fewer, from scarlet fever 10 fewer, from the diarrhoeas of childhood 9 fewer, from diphtheria 7 fewer, and from enteric fever 2 fewer. The monthly death-rate from these causes is 2·4 per thousand. It is 0·7 less than that of the previous month, and 0·2 less than the mean of those of the three preceding months, but is 1·3 more than that of June of last year. This rate ranged from 5·5 in Motherwell, 3·5 in Hamilton, and 3·0 in Glasgow, to 0 in Perth, 0·3 in Kilmarnock, 0·5 in Coatbridge, and 0·7 in Dundee and in Ayr.

Deaths from pneumonia numbered 200, being 83 fewer than in the previous month. Deaths from bronchitis numbered 126, being 69 fewer than in that month.

Deaths from all forms of tuberculous disease numbered 387, of which 245 were attributed to phthisis. The total deaths from tuberculosis are 39 fewer than in the previous month, and 26 fewer than in June of last year. The deaths from phthisis are 19 fewer than in the previous month, and 31 fewer than in June of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
Meteorological Society.

JUNE 1917.

Mean barometric pressure, 29·964 in.; less than the average of 1881–1915 by 0·005 in.

Mean temperature, 55°·5; greater by 0°·1.

Mean daily range of temperature, 14°·7; less by 0°·6.

Rain, number of days, 12; less by 2 days.

Rain, depth in inches, 2·23; greater by 0·03 in.

Wind, direction of: a 4 days' excess of winds from S. and S.W.

Hence the month was characterised by a mean pressure, a mean temperature, and a mean rainfall all practically equal to the normal; a slightly low mean daily range of temperature; and an excess of winds from south and south-west.

Fluctuations of pressure were in general moderate, and from about 5th to 12th an anticyclone was dominant. On 20th and 21st a low pressure area over the North Sea, with northerly to north-westerly winds, was associated with cold and wet weather over our area. The mean for the month was 29·964 in., or 0·005 in. below the normal, and at Leith, at sea-level, pressure was above 30 in. on 3rd., from 5th to 7th, from 9th to 12th, from 14th to 17th, and from 26th to 30th, the extremes there being 30·42 in. on 30th, and 29·48 in. on 21st.

During the first few days temperature was rather above the normal, and from about 11th to 18th with easterly or southerly winds some warm weather was experienced, with highest readings on 12th,—as high as 81° at Fort William,—and here and there from 15th to 17th. With northerly winds the 20th was in many districts the coldest day of the month, whilst the coldest nights occurred towards the end of the month with a north-easterly type of conditions. On 30th the thermometer in screen fell to 29° at Balmoral, with a rather sharp ground frost in some upland districts, and a reading at Braemar from a thermometer in the open as low as 23°. In eastern districts the mean temperature of the month was equal to or rather above the normal, but in some inland and western districts rather below it. For the chief towns the mean was 55°·5, or 0°·1 above the normal; the days were 0°·2 below and the nights 0°·4 above their respective averages; and the extremes were 76° at Leith on 15th, and 36° at Perth on 30th.

Much dry weather was experienced, and at many places a good deal of the month's rainfall was accounted for in thunderstorms. Moderate to fairly heavy rains were more or less general around 3rd and 7th, whilst from 8th to 19th various districts were rainless or all but so, whilst in others the only falls of importance during that period occurred around 12th. On 20th heavy rains were general, with more than 1 in. at many stations and as much as 1·73 in. at Balmoral; and from 21st to 25th conditions remained unsettled. In some districts, however, no rain, or none of importance, fell after 21st, and everywhere the last few days of the month were dry. Aggregates were rather above the normal in some western and northern districts, but rather deficient in the east. The mean for the chief towns was 2·23 in., or 1 per cent. above the normal.

Wind force was in general light, but rather high around 14th.

Thunderstorms occurred here and there on 2nd and 7th; rather widely on 12th and 13th; in the north on 21st., and at various points from 24th to 27th.

Sunshine amounts were decidedly above the normal, more especially in east and north. At Aberdeen (239 hours), where there is a continuous record since 1881, a sunnier June has been experienced only in 1889 (245 hours). At varicous stations the amounts were twice or thrice those recorded in the extremely gloomy June of 1916, e.g. Gordon Castle had 243 hours as compared with 77 hours in 1916.

NOTE.—For meteorological table see p. 48.

*Abstract.*TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, JUNE 1917.

TOWNS.	POPULATION.		BIRTHS.						DEATHS.					
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	MARRIAGES.	Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW, .	1,008,487	1,115,800	1160	995	2155	1978	177	933	753	658	1411	87	62	1386
EDINBURGH, .	320,769	331,800	246	211	457	409	48	339	203	198	401	68	33	366
DUNDEE, .	176,085	184,300	126	124	250	213	37	129	99	93	192	9	10	193
ABERDEEN, .	163,891	165,700	99	119	218	179	39	126	108	96	204	16	10	198
PAISLEY, .	84,455	89,700	73	79	152	148	4	58	51	54	105	6	0	99
LEITH, .	80,601	82,800	84	62	146	136	10	50	38	27	65	1	29	93
GREENOCK, .	75,140	79,600	85	92	177	165	12	54	49	39	87	3	1	85
PERTH, .	35,854	35,400	28	22	50	42	8	40	22	22	44	6	0	38
TOTAL . (EIGHT TOWNS)	1,945,282	2,085,100	1901	1704	3605	3270	385	1729	1323	1186	2509	196	145	2458
COATBRIDGE, .	43,290	44,300	50	42	92	88	4	35	24	24	48	4	5	49
MOTHERWELL .	40,380	42,000	63	51	114	113	1	20	34	20	54	0	8	62
KIRKCALDY .	39,601	40,900	32	21	53	50	3	27	20	15	35	2	6	39
HAMILTON, .	38,644	38,600	48	56	104	99	5	22	22	25	47	1	6	52
CLYDEBANK, .	37,548	46,700	42	51	93	93	0	21	23	10	33	0	14	47
KILMARNOCK, .	34,728	37,000	29	28	57	54	3	15	21	12	33	6	3	30
FALKIRK, .	33,574	34,100	26	22	48	45	3	20	18	16	34	3	2	33
AYR, .	32,986	33,100	32	25	57	47	10	25	21	25	46	12	4	38
TOTAL . (SIXTEEN TOWNS)	2,246,033	2,401,800	2223	2000	4223	3859	364	1914	1506	1333	2839	224	193	2808

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, JUNE 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 of POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.	
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.		
				Uncor- rected.	Cor- rected.				Number.	* Rate per 1000 Births.	
GLASGOW, .	23·5	8·2	10·2	15·4	15·1	3·0	1·9	1·3	2·2	229	106
EDINBURGH, .	16·8	10·5	12·4	14·7	13·4	2·0	1·9	1·4	1·4	39	84
DUNDEE, .	16·5	14·8	8·5	12·7	12·7	0·7	2·4	1·3	1·1	23	82
ABERDEEN, .	16·0	17·9	9·3	15·0	14·5	2·9	1·9	1·2	2·0	31	114
PAISLEY, .	20·6	2·6	7·9	14·2	13·4	2·0	1·4	0·7	1·4	16	103
LEITH, .	21·4	6·8	7·3	9·5	13·7	1·9	2·6	1·3	1·3	12	87
GREENOCK, .	27·1	6·8	8·3	13·3	13·0	2·1	1·5	0·5	1·7	13	71
PERTH, .	17·2	16·0	13·8	15·1	13·1	0·0	1·4	0·7	1·4	6	128
TOTAL . (EIGHT TOWNS)	21·0	9·3	10·1	14·6	14·3	2·4	1·9	1·2	1·8	369	100
COATBRIDGE, .	25·3	4·3	9·6	13·2	13·5	0·5	1·9	1·4	2·5	9	88
MOTHERWELL, .	33·0	0·9	5·8	15·6	17·9	5·5	1·4	1·2	2·6	9	97
KIRKCALDY, .	15·8	5·7	8·0	10·4	11·6	2·1	0·9	0·0	1·5	4	65
HAMILTON, .	32·8	4·8	6·9	14·8	16·4	3·5	2·2	1·3	1·3	13	153
CLYDEBANK, .	24·3	0·0	5·5	8·6	12·3	0·8	2·3	1·8	2·3	11	107
KILMARNOCK, .	18·7	5·3	4·9	10·8	9·9	0·3	3·0	1·3	0·3	4	62
FALKIRK, .	17·1	6·3	7·1	12·1	11·8	1·1	3·2	1·4	0·0	7	123
AYR, .	20·9	17·5	9·2	16·9	14·0	0·7	2·6	1·5	1·1	4	69
TOTAL . (SIXTEEN TOWNS)	21·4	8·6	9·7	14·4	14·2	2·4	2·0	1·2	1·8	430	99

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR JUNE 1917, AND FOR THE CORRESPONDING MONTH OF THE PRECEDING TEN YEARS, IN THE PRINCIPAL TOWNS.

Month.	Birth-Rate. (2)	Illegitimate Birth- rate per 100 Births. (3)	Marriage-Rate. (4)	Death-Rate. (5)	DEATHS FROM									* Infantile Mortality Rate. (18)	Mean Temperature (Eight Towns only.) (14)
					Enteric Fever. (6)	Smallpox. (7)	Measles. (8)	Scarlet Fever. (9)	Whooping- Cough. (10)	Diphtheria and Croup. (11)	Diarrhoea (Under 2 Years). (12)				
(1)															
JUNE 1917, .	21·4	8·6	9·7	14·2	1	0	204	6	201	20	34	99	55°·5		
JUNE 1916, .	25·0	7·6	10·1	13·0	6	0	90	24	29	28	44	82	52°·8		
JUNE 1915, .	25·0	6·9	14·2	16·9	1	0	356	38	113	23	64	117	55°·8		
JUNE 1914, .	29·8	7·5	14·1	15·2	6	0	60	24	74	22	61	109	56°·8		
JUNE 1913, .	27·8	7·3	13·0	14·9	5	0	150	20	101	27	45	96	55°·7		
JUNE 1912, .	25·4	7·3	12·8	14·0	3	0	128	15	54	19	57	104	54°·6		
JUNE 1911, .	27·9	8·2	14·8	14·5	3	0	58	9	127	17	43	95	56°·2		
JUNE 1910, .	28·9	7·2	14·1	15·4	4	0	56	20	38	20	64	101	55°·8		
JUNE 1909, .	30·1	7·6	14·2	15·9	6	0	29	14	80	21	50	98	54°·0		
JUNE 1908, .	32·5	6·9	15·7	15·7	6	0	38	9	60	15	-	98	56°·1		
JUNE 1907, .	29·3	7·7	14·4	17·5	7	0	25	3	175	12	-	119	52°·5		

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—June 1917.

DEATHS IN EACH TOWN (corrected for Transfers)—June 1917.

CAUSES OF DEATH.										
			Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever	...	...	1	...	...	...	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...
Measles	...	...	112	29	...	24	11	8	...	...
Scarlet Fever	...	...	2	3	...	...	...	1	...	...
Whooping-cough	...	...	135	20	1	8	1	4	14	...
Diphtheria and Croup	...	...	9	2	5	...	...	...	...	...
Influenza	...	...	...	1	...	...	...	...	...	...
Erysipelas	...	...	2	...	...	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	...	119	39	19	17	5	9	3	2
Tuberculous Meningitis	...	...	22	7	7	4	...	3	3	...
Abdominal Tuberculosis	...	...	13	3	4	4	...	3	2	...
Other Tuberculous Diseases	...	...	21	3	6	1	5	3	2	2
Cancer, Malignant Disease	...	...	87	27	16	15	4	9	12	4
Rheumatic Fever	...	...	2	...	...	1	...	...	...	...
Meningitis	...	...	11	2	1	3	1	1	...	...
Organic Heart Disease	...	...	90	46	26	20	10	11	7	8
Bronchitis	...	...	70	10	12	8	3	3	6	1
Pneumonia (all forms)	...	...	110	23	4	18	5	6	5	3
Other Diseases of Respiratory Organs	...	...	20	4	...	1	2	...	...	...
Diarrhoea and Enteritis (under 2 years)	...	...	13	1	4	7	3	...	...	...
Appendicitis and Typhlitis	...	...	11	...	1	...	...	1	...	...
All Liver Diseases (not Malignant)	...	...	5	...	...	1	2	...	1	...
Other Diseases of Digestive System	...	...	33	10	3	4	4	2	1	1
Nephritis and Bright's Disease	...	...	55	11	10	8	4	2	...	1
Puerperal Sepsis	...	...	5	...	...	1	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	4	3	...	2	1	...	1	...
Congenital Debility and Malformation, including Premature Birth	...	...	80	10	9	5	5	3	6	4
Violent Deaths, excluding Suicide	...	...	46	10	7	9	4	2	3	1
Suicide	...	...	1	...	1	2	...	1	1	...
Other Defined Diseases	...	...	265	98	55	35	28	19	17	10
Diseases Ill-defined or Unknown	...	...	42	4	2	...	1	2	1	1
All Causes	...	1386	366	193	198	99	93	85	38	
AGE AT DEATH.										
Under 1	...	...	229	39	23	31	16	12	13	6
1-4	...	...	279	58	14	38	10	15	17	2
5-9	...	...	42	11	8	10	6	1	1	2
10-14	...	...	39	5	4	3	1	4	...	1
15-24	...	...	70	14	7	9	5	4	4	1
25-34	...	...	57	11	13	11	4	3	3	3
35-44	...	...	100	32	11	8	8	10	9	...
45-54	...	...	129	28	26	15	5	4	10	1
55-64	...	...	172	42	30	21	14	17	8	2
65-74	...	...	169	73	32	20	17	15	8	8
75 and over	...	...	100	53	25	32	13	8	12	12
All Ages	...	1386	366	193	198	99	93	85	38	

DEATHS IN EACH TOWN (corrected for Transfers)—June 1917—continued.

		CAUSES OF DEATH.								
		Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.	
Enteric Fever	...	...	...	...	...	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...
Measles	...	15	4	...	...	...	...	...	1
Scarlet Fever	...	...	...	...	...	...	...	...	...
Whooping-cough	...	1	4	...	8	3	...	1	1	
Diphtheria and Croup	...	...	...	3	1	...	...	...	...
Influenza	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	1	...	...
Phthisis, Pulmonary Tuberculosis	...	5	4	...	4	7	4	4	4	
Tuberculous Meningitis	...	...	...	3	1	2	...	4	3
Abdominal Tuberculosis	...	...	1	...	2	...	4	...	...
Other Tuberculous Diseases	...	2	...	...	...	...	1	1	...
Cancer, Malignant Disease	...	4	3	8	2	3	3	2	2	
Rheumatic Fever	...	...	...	...	...	...	...	...	...
Meningitis	...	3	1	...	1	...	2	...	...
Organic Heart Disease	...	4	2	5	4	2	2	2	1	
Bronchitis	...	4	4	1	1	2	...	...	1
Pneumonia (all forms)	...	5	5	4	3	7	1	...	1	
Other Diseases of Respiratory Organs	...	...	...	...	...	...	...	...	1
Diarrhoea and Enteritis (under 2 years)	...	1	...	...	2	...	1	1	1
Appendicitis and Typhlitis	...	...	1	...	...	...	...	...	...
All Liver Diseases (not Malignant)	...	...	...	2	...	...	...	1	...
Other Diseases of Digestive System	...	...	4	1	2	...	3	2	2
Nephritis and Bright's Disease	...	2	3	...	1	...	1	2	1	
Puerperal Sepsis	...	...	...	...	...	...	...	...	1
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	1	...	...	...	1	...
Congenital Debility and Malformation, including Premature Birth	...	5	4	...	6	4	3	3	3	
Violent Deaths, excluding Suicide	...	2	5	1	3	...	1	2	1	
Suicide	...	...	...	...	...	...	...	...	...
Other Defined Diseases	...	10	5	6	11	17	3	5	13	
Diseases Ill-defined or Unknown	...	1	1	...	...	...	...	1	2
All Causes		49	62	39	52	47	30	33	38	
AGE AT DEATH.										
Under 1	...	9	9	4	13	11	4	7	4	
1-4	...	1	20	7	9	7	5	3	4	
5-9	...	4	3	...	1	2	2	1	1	
10-14	...	3	...	3	1	...	1	2	1	
15-24	...	3	3	1	2	3	...	2	6	
25-34	...	3	4	2	3	2	3	3	1	
35-44	...	2	5	1	4	5	3	3	5	
45-54	...	1	3	2	3	3	5	4	2	
55-64	...	6	7	6	4	5	2	3	5	
65-74	...	11	6	6	6	5	2	3	6	
75 and over	...	6	2	7	6	4	3	2	3	
All Ages		49	62	39	52	47	30	33	38	

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,
During the Month of JUNE 1917.

OBSERVERS.	BARO-METER.	AIR TEMPERATURE.				HYGROMETER.				RAIN, AND OTHER FORMS OF PRECIPITATION.				WIND DIRECTIONS.													
		Mean of A and B (Mean Temperature).		Absolute Maximum and Minimum.		Mean at 9 A.M. and 9 P.M.		Humidity.		Number of Days.		Number of Observations at 9 A.M. and 9 P.M.		Calm or Variable.													
		Mean at Sea-Level and 82°.	Mean at Station and 82°.	Height of Station above Sea-level.	Day of Month.	Minimum.	Maximum	Dry Bulb.	Vapour Pressure.	Depression of Wet Bulb.	Total Fall.	Difference from Average.	inch.	per cent.	inch.	per cent.											
GLASGOW, The Observatory.	184	29.769	29.969	62.4	•	•	•	•	•	•	•	•	2.92	2	8	9	0	8	15	16	2	0					
EDINBURGH, Professor R. A. Sampson, F.R.S., Royal Observatory.	441	29.490	29.967	61.6	48.8	55.6	-0.2	71	15th	42	26th	54.6	3.8	324	77	15	10	6	3	10	12	13	3	2			
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	164	29.784	29.962	64.8	47.4	56.1	+0.7	73	17th	39	30th	64.8	1.9	376	88	11	1.48	-0.32	0	5	0	27	1	9	0		
ABERDEEN,* The Meteorological Office.	90	29.854	29.954	61.5	47.3	54.4	+0.9	70	14, 16	38	27th	64.9	3.6	334	77	8	1.40	-0.31	3	3	6	9	20	7	4	6	
PAISLEY, The Coats Observatory.	107	29.854	29.971	64.3	48.4	56.4	-0.9	73	10, 15	40	26th	55.6	3.9	337	76	17	3.34	+0.86	4	4	8	5	2	17	9	7	4
LEITH,† JAMES BOLAM, Navigation School.	76	29.891	29.974	62.4	49.2	55.8	+0.1	76	15th	42	30th	55.2	3.6	337	78	9	1.24	-0.68	2	10	10	0	4	14	14	6	0
GREENOCK, DANIEL MACALISTER, C.E., Greenock Waterworks.	233	29.639	29.959	61.5	48.6	55.1	-0.4	73	12th	41	26th	54.7	4.2	316	74	18	4.08	+0.78	0	7	10	2	0	20	12	9	0
PERTH, HENRY COATES, F.R.S.E.,	62	29.891	29.958	63.5	46.8	55.2	-0.5	72	10th	36	30th	55.0	2.8	354	82	10	1.86	-0.11	2	1	11	5	6	25	6	4	0
Means	170	29.779	29.964	62.8	48.1	55.5	+0.1	54.9	3.4	337	78	12	2.23	+0.03	2	6	8	5	6	17	9	6	1

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North Latitude.—Glasgow, 55° 51'; Edinburgh, 56° 51'; Aberdeen, 56° 28'; Paisley, 55° 51'; Leith, 55° 58'; Greenock, 55° 57'; Perth, 56° 23'; Mean, 56° 11'.
West Longitude.—Glasgow, 4° 18'; Edinburgh, 3° 11'; Aberdeen, 2° 57'; Dundee, 2° 7'; Paisley, 4° 27'; Leith, 3° 8'; Greenock, 4° 46'; Perth, 3° 25'; Mean, 3° 32'.

* At King's College, at 7 A.M. and 6 P.M.
† At 8 A.M. only.

FOR OFFICIAL USE.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

JULY 1917.

Published by Authority of the Registrar-General.

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REPORT.

During the month of July 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the date of the 1911 Census had populations of over 30,000, the births of 4153 living children, of whom 2123 were male and 2030 were female. The male children are 100 fewer than in the previous month, and 245 fewer than in the corresponding month of last year. The female children of the month are 30 more than in the previous month, but 359 fewer than in the corresponding month of last year. The total children of the month are 70 fewer than in the previous month, 174 fewer than the mean of the numbers of the three preceding months, and 604 fewer than in the corresponding month of last year. The equivalent annual birth-rate is 20·4 per thousand of the estimated aggregate population of these towns. It is 1·0 less than that of the previous month, 1·3 less than the mean of the three preceding months, and 3·3 less than in July of last year. In the individual towns the monthly birth-rate ranged from 28·8 in Clydebank, 27·4 in Greenock, and 27·2 in Motherwell, to 13·4 in Dundee, 14·7 in Kirkcaldy, and 15·6 in Kilmarnock. In Hamilton it was 25·3; in Coatbridge, 23·7; in Glasgow, 22·2; in Paisley, 21·4; in Ayr, 20·6; in Perth and in Falkirk, 19·0; in Leith, 18·3; in Aberdeen, 17·3; and in Edinburgh, 16·6.

Of the 4153 children whose births were registered during the month, 3816, or 91·9 per cent., were legitimate, while 337, or 8·1 per cent., were illegitimate. Illegitimate births are 27 less than in the previous month, 15 less than the mean of the numbers of the three preceding months, and 2 less than in July of last year. The illegitimate rate is 0·5 less than that of the previous month, 0·1 less than the mean of those of the three preceding months, but 1·0 more than in July of last year. In the towns individually this rate ranged from 13·0 in Edinburgh, 12·3 in Aberdeen and in Perth, and 12·2 in Kilmarnock, to 0·0 in Clydebank, 3·4 in Coatbridge, and 3·9 in Kirkcaldy. In Dundee it was 9·5; in Ayr, 8·6; in Leith, 8·5; in Glasgow, 7·7; in Motherwell, 6·2; in Greenock, 5·9; in Falkirk, 5·5; in Hamilton, 4·8; and in Paisley, 4·3.

Marriages registered in these towns during the month numbered 2038. They are 124 more than in the previous month, 557 more than the mean of the numbers of the three preceding months, and 92 more than in July of last year. The equivalent annual marriage-rate is 10·0 per thousand. It is 0·3 more than in the previous month, 2·5 more than the mean of those of the three preceding months, and 0·3

more than in July of last year. In the towns taken individually the rate ranged from 11.5 in Edinburgh, 10.9 in Glasgow, and 9.5 in Leith, to 5.5 in Paisley, 6.0 in Perth and in Kirkcaldy, and 7.9 in Falkirk. In Hamilton it was 9.4; in Dundee, 9.2; in Clydebank, 9.1; in Aberdeen, 9.0; in Greenock, 8.9; in Coatbridge 8.8; in Motherwell, 8.7; in Kilmarnock, 8.3; and in Ayr, 8.2.

Deaths registered in these towns numbered 2616, of which 1342 were of males and 1274 of females. These deaths include those of 233 persons with usual residence outwith the towns of registration, but exclude 219 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 14, falls to be deducted to get the corrected number for the month, which is thus found to be 2602. This number is 206 less than that for the previous month, 632 less than the mean of the numbers for the three preceding months, but is 216 more than in July of last year.

The death-rate for the month, corrected, is 12.8 per thousand. It is 1.4 less than that for June, 3.4 less than the mean of those for April, May, and June, but is 0.9 more than that for July of last year. In the towns taken individually the monthly death-rate ranged from 20.2 in Motherwell, 16.6 in Falkirk, and 15.1 in Clydebank, to 8.5 in Ayr, 9.2 in Kirkcaldy, and 11.0 in Perth. In Greenock it was 14.8; in Kilmarnock, 14.0; in Paisley, 13.8; in Leith, 13.2; in Glasgow, 12.9; in Aberdeen, 12.6; in Dundee, 12.2; in Coatbridge, 11.7; in Hamilton, 11.6; and in Edinburgh, 11.4.

Deaths of children of less than one year old numbered 365. They are 65 fewer than in the previous month, 180 fewer than the mean of the numbers of the three preceding months, but 29 more than in July of last year. They are equal to an infantile mortality rate of 83 per thousand of the average number of births registered monthly during the past twelve months. This rate is 16 less than in the previous month, and 39 less than the mean of the rates of the three preceding months, but is 11 more than in July of last year. In the towns taken individually this rate ranged from 236 in Clydebank, 123 in Falkirk, and 115 in Motherwell, to 19 in Coatbridge, 21 in Perth, and 57 in Leith. In Hamilton it was 102; in Greenock, 90; in Glasgow, 86; in Ayr, 85; in Aberdeen, 84; in Kirkcaldy, 81; in Dundee, 64; in Edinburgh and in Kilmarnock, 63; and in Paisley, 62.

Deaths from the principal epidemic diseases numbered 329, and included 2 from enteric fever, 121 from measles, 9 from scarlet fever, 141 from whooping-cough, 14 from diphtheria, and 42 from the diarrhoeas of childhood. These deaths collectively are 137 fewer than in the previous month, 218 fewer than the mean of the numbers of the three preceding months, but 140 more than in July of last year. Deaths from measles are 83 fewer than in the previous month, from whooping-cough 60 fewer, and from diphtheria 6 fewer, but those from enteric fever are 1 more, from scarlet fever 3 more, and from the diarrhoeas of childhood 8 more. The monthly death-rate from these causes is 1.6 per thousand. It is 0.8 less than in the previous month, 1.2 less than the mean of the three preceding months, but 0.7 more than in July of last year. This rate ranged from 6.2 in Motherwell, 2.8 in Aberdeen and in Clydebank, and 2.2 in Kilmarnock, to 0.3 in Perth, and 0.6 in Dundee and in Leith. In Glasgow it was 1.8 and in Edinburgh 0.8.

Deaths from pneumonia numbered 162, being 38 fewer than in the previous month. Deaths from bronchitis numbered 123, being 3 fewer than in the previous month.

Deaths from all forms of tuberculous disease numbered 356, of which 221 were ascribed to phthisis. The former are 31 fewer than in the previous month, but 35 more than in July of last year. The latter are 24 fewer than in the previous month, but 14 more than in July of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
Meteorological Society.

JULY 1917.

Mean barometric pressure, 30.039 in.; greater than the average of 1881-1915 by 0.139 in.

Mean temperature, 59°.1; greater by 1°.1.

Mean daily range of temperature, 15°.6; greater by 1°.1.

Rain, number of days, 9; less by 7 days.

Rain, depth in inches, 2.25; less by 0.72 in.

Wind, direction of: a 5 days' excess of winds from between N. and E.

Hence the month was characterised by a high mean pressure, a high mean temperature with a high mean daily range, a low mean rainfall, and a considerable excess of winds from a north-easterly quarter.

For the most part the weather was of a quiet anticyclonic type, but from about 13th to 19th conditions were definitely cyclonic, and around 27th a large low pressure system to the north-west of Scotland affected our area. The mean pressure for the month was 30.039 in., or 0.139 in. above the normal, and at Leith, at sea-level, pressure was above 30 in. from 1st to 7th, from 9th to 13th, from 20th to 25th, and on 30th and 31st, the extremes there being 30.38 in. on 5th, and 29.68 in. on 19th.

During the first few days temperature was rather low in east and north—with lowest readings for the month at various places on 1st—but high in west, with 80° at Fort William on 3rd. After various fluctuations during the second week, and low readings both by day and night around 11th—at Balmoral 30° in the screen and 26° in the open on the night of 10th-11th—there set in a steady rise in temperature which continued until the last day or two of the month. The fourth week was very warm; the days were often sultry; and at some places on one or two nights temperature did not fall below 60°. For the chief towns the mean was 59°.1, or 1°.1 above the normal; the days were 1°.7 and the nights 0°.6 above their respective averages; and the extremes were 82° at Dundee on 24th, and 39° at Perth on 1st, and at Aberdeen on 11th.

The last few days of June had been dry in all districts, and over wide areas July proved rainless or all but so until 18th. Here and there, however, trifling falls occurred on 6th or 11th, and in some districts there were moderate to heavy falls from 14th or 15th to 17th. On 18th a heavy rainstorm was more or less general in all except some inland, north-western and northern districts, with numerous falls of about 1 in. or more, and at Eskdalemuir Observatory and Whithorn as much as 1½ in. At Aberdeen the aggregate rainfall from 15th to 19th was more than 3 in. From 23rd to 29th conditions were again rather unsettled, and on 27th a severe rainstorm, apparently of a very local character in its most intense form, visited parts of Lanarkshire and Renfrewshire, when Glasgow Observatory recorded as much as 2.11 in. between 5.40 p.m. and midnight (G.M.T.), and Paisley 1.40 in. in about 4½ hours. At Greenock the corresponding fall was only 0.18. At a few points where exceptionally heavy falls had been experienced on one or two days, as at Glasgow and Aberdeen, aggregates for the month exceeded the normal, but in general there was a decided shortage. The mean for the chief towns was 2.25 in., or 24 per cent. below the normal.

On the afternoon of 15th a thunderstorm occurred at various points, and more or less well-developed thunderstorms were experienced here and there on 13th, 14th, 16th, 17th, or during the fourth week,—at Gordon Castle on as many as six days.

Some fog or mist occurred, but the general character of the month was extremely sunny, and most places had on the average at least 1 hour per day more sunshine than the normal. At Deerness the month with an aggregate of 208 hours was the sunniest July since 1897, and compared with only 72 hours in July 1916.

NOTE.—For meteorological table see p. 56.

*Abstract.*TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, JULY 1917.

TOWNS.	POPULATION.		BIRTHS.						DEATHS.					
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	MARRIAGES.	Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW, . .	1,008,487	1,115,800	1040	1061	2101	1940	161	1032	657	585	1242	97	75	1220
EDINBURGH, . .	320,769	331,800	237	232	469	408	61	325	172	167	339	59	41	321
DUNDEE, . .	176,085	184,300	118	92	210	190	20	144	94	100	194	7	4	191
ABERDEEN, . .	163,891	165,700	135	108	243	213	30	126	89	88	177	13	13	177
PAISLEY, . .	84,455	89,700	85	78	163	156	7	42	57	50	107	10	8	105
LEITH, . .	80,601	82,800	55	74	129	118	11	67	33	37	70	1	24	93
GREENOCK, . .	75,140	79,600	105	80	185	174	11	60	49	51	100	4	4	100
PERTH, . .	35,254	35,400	33	24	57	50	7	18	18	25	43	11	1	33
TOTAL . . (Eight Towns)	1,945,282	2,085,100	1808	1749	3557	3249	308	1814	1169	1103	2272	202	170	2240
COATBRIDGE, . .	43,290	44,300	46	43	89	86	3	33	28	14	42	1	3	44
MOTHERWELL . .	40,380	42,000	46	51	97	91	6	31	32	29	61	0	11	72
KIRKCALDY . .	39,601	40,900	25	26	51	49	2	21	7	24	31	1	2	32
HAMILTON, . .	38,644	38,600	48	35	83	79	4	31	18	19	37	4	5	38
CLYDEBANK, . .	37,548	46,700	58	56	114	114	0	36	24	25	49	0	11	60
KILMARNOCK, . .	34,728	37,000	23	21	49	43	6	26	24	22	46	9	7	44
FALKIRK, . .	33,574	34,100	31	24	55	52	3	23	21	22	43	5	10	48
AYR, . .	32,986	33,100	33	25	58	53	5	23	19	16	35	11	0	24
TOTAL . . (Sixteen Towns)	2,246,033	2,401,800	2123	2030	4153	3816	337	2038	1342	1274	2616	233	219	2602

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, JULY 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 of POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.	
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.	Number.	* Rate per 1000 Births.
				Uncor- rected.	Cor- rected.						
GLASGOW, . .	22.2	7.7	10.9	13.1	12.9	1.8	1.6	0.9	1.8	190	86
EDINBURGH, . .	16.6	13.0	11.5	12.0	11.4	0.8	1.7	1.2	1.1	30	63
DUNDEE, . .	13.4	9.5	9.2	12.4	12.2	0.6	2.1	1.2	1.2	18	64
ABERDEEN, . .	17.3	12.3	9.0	12.6	12.6	2.8	1.9	1.3	1.1	23	84
PAISLEY, . .	21.4	4.3	5.5	14.1	13.8	2.0	2.1	1.6	1.6	10	62
LEITH, . .	18.3	8.5	9.5	10.0	13.2	0.6	2.6	1.8	1.7	8	57
GREENOCK, . .	27.4	5.9	8.9	14.8	14.8	1.5	1.5	0.7	1.9	17	90
PERTH, . .	19.0	12.3	6.0	14.3	11.0	0.3	1.3	0.7	1.0	1	21
TOTAL . . (Eight Towns)	20.1	8.7	10.2	12.8	12.6	1.5	1.7	1.1	1.6	297	78
COATBRIDGE, . .	23.7	3.4	8.8	11.2	11.7	0.8	2.1	1.1	2.4	2	19
MOTHERWELL, . .	27.2	6.2	8.7	17.1	20.2	6.2	2.5	1.4	1.1	11	115
KIRKCALDY, . .	14.7	3.9	6.0	8.9	9.2	0.9	0.6	0.3	0.9	5	81
HAMILTON, . .	25.3	4.8	9.4	11.3	11.6	1.5	1.8	0.6	1.5	9	102
CLYDEBANK, . .	28.8	0.0	9.1	12.4	15.1	2.8	1.0	0.5	2.5	25	236
KILMARNOCK, . .	15.6	12.2	8.3	14.6	14.0	2.2	2.2	2.2	1.0	4	63
FALKIRK, . .	19.0	5.5	7.9	14.8	16.6	1.0	4.1	3.5	1.7	7	123
AYR, . .	20.6	8.6	8.2	12.4	8.5	1.1	1.1	0.4	0.7	5	85
TOTAL . . (Sixteen Towns)	20.4	8.1	10.0	12.8	12.8	1.6	1.7	1.1	1.6	365	83

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR JULY 1917, and for the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL TOWNS.

MONTH.	Birth-Rate.	Illegitimate Birth-rate per 100 Births.	Marriage-Rate.	Death-Rate.	DEATHS FROM								* Infantile Mortality Rate.	Mean Temperature. (Eight Towns only.)
					Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-Cough.	Diphtheria and Croup.	Diarrhoea (Under 2 Years).	(13)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(18)	(14)	
JULY 1917, .	20·4	8·1	10·0	12·8	2	0	121	9	141	14	42	83	59°·1	
JULY 1916, .	23·7	7·1	9·7	12·2	6	0	66	26	25	20	46	72	58°·0	
JULY 1915, .	23·0	6·2	13·7	14·1	4	0	229	46	62	34	78	100	57°·3	
JULY 1914, .	27·5	6·2	12·7	13·2	9	0	41	21	49	15	86	91	58°·9	
JULY 1913, .	26·7	6·8	13·5	13·8	3	0	109	19	62	18	81	86	58°·3	
JULY 1912, .	28·0	7·4	14·2	14·2	6	0	54	14	62	24	111	105	58°·1	
JULY 1911, .	25·1	8·4	13·2	14·5	6	2	43	17	73	26	91	107	60°·6	
JULY 1910, .	25·7	7·6	12·2	13·0	11	0	23	19	30	28	56	88	56°·7	
JULY 1909, .	27·1	7·8	12·1	13·7	6	0	31	14	57	14	44	87	57°·0	
JULY 1908, .	29·6	7·3	13·0	14·6	4	0	14	7	86	10	-	102	58°·6	
JULY 1907, .	30·1	7·0	16·1	15·5	11	0	28	8	103	14	-	101	56°·5	

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—July 1917.

CAUSES OF DEATH.	All Ages.	Age.														
		-1	1-	5-	10-	15-	25-	35-	45-	55-	65-					
Enteric Fever	-	-	-	-	-	-	-	-	-	-	-					
Typhus Fever	-	-	-	-	-	-	-	-	-	-	-					
Small-pox	-	-	-	-	-	-	-	-	-	-	-					
Measles	-	-	-	-	-	-	-	-	-	-	-					
Scarlet Fever	-	-	-	-	-	-	-	-	-	-	-					
Whooping-cough	-	-	-	-	-	-	-	-	-	-	-					
Diphtheria and Croup	-	-	-	-	-	-	-	-	-	-	-					
Influenza	-	-	-	-	-	-	-	-	-	-	-					
Erysipelas	-	-	-	-	-	-	-	-	-	-	-					
Phthisis, Pulmonary Tuberculosis	-	-	-	-	-	-	-	-	-	-	-					
Tuberculous Meningitis	-	-	-	-	-	-	-	-	-	-	-					
Abdominal Tuberculosis	-	-	-	-	-	-	-	-	-	-	-					
Other Tuberculous Diseases	-	-	-	-	-	-	-	-	-	-	-					
Cancer, Malignant Disease	-	-	-	-	-	-	-	-	-	-	-					
Rheumatic Fever	-	-	-	-	-	-	-	-	-	-	-					
Meningitis	-	-	-	-	-	-	-	-	-	-	-					
Organic Heart Disease	-	-	-	-	-	-	-	-	-	-	-					
Bronchitis	-	-	-	-	-	-	-	-	-	-	-					
Pneumonia (all forms)	-	-	-	-	-	-	-	-	-	-	-					
Other Diseases of Respiratory Organs	-	-	-	-	-	-	-	-	-	-	-					
Diarrhoea and Enteritis (under 2 years)	-	-	-	-	-	-	-	-	-	-	-					
Appendicitis and Typhlitis	-	-	-	-	-	-	-	-	-	-	-					
All Liver Diseases (not Malignant)	-	-	-	-	-	-	-	-	-	-	-					
Other Diseases of Digestive System	-	-	-	-	-	-	-	-	-	-	-					
Nephritis and Bright's Disease	-	-	-	-	-	-	-	-	-	-	-					
Puerperal Sepsis	-	-	-	-	-	-	-	-	-	-	-					
Other Diseases & Accidents of Pregnancy & Parturition	-	-	-	-	-	-	-	-	-	-	-					
Congenital Debility and Malformation, including Pre-mature Birth	-	-	-	-	-	-	-	-	-	-	-					
Violent Deaths, excluding Suicide	-	-	-	-	-	-	-	-	-	-	-					
Suicide	-	-	-	-	-	-	-	-	-	-	-					
Other Defined Diseases	-	-	-	-	-	-	-	-	-	-	-					
Diseases Ill-defined or Unknown	-	-	-	-	-	-	-	-	-	-	-					
All Causes	-	-	-	-	2603	365	353	92	57	122	141	177	285	361	394	256

DEATHS IN EACH TOWN (corrected for Transfers)—July 1917.

CAUSES OF DEATH.						Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever	...	...	...	...	...	1	...	...	...	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	58	3	1	30	2	3	1	1
Scarlet Fever	...	...	...	...	...	4	1	...	1	...	...	8	1
Whooping-cough	...	...	...	...	...	88	10	1	4	8	1	8	1
Diphtheria and Croup	...	...	...	...	...	3	4	2	2	1	...	...	1
Influenza	...	...	...	...	...	1	1	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	...	...	...	...	86	34	19	18	12	13	5	2
Tuberculous Meningitis	...	...	...	...	...	25	5	4	3	...	2	2	1
Abdominal Tuberculosis	...	...	...	...	...	21	4	3	5	4	2	...	1
Other Tuberculous Diseases	...	...	...	...	...	16	6	7	1	...	1	3	...
Cancer, Malignant Disease	...	...	...	...	...	99	34	15	18	8	7	10	4
Rheumatic Fever	...	...	...	...	...	2	1	...	...	...	1	1	...
Meningitis	...	...	...	...	...	21	2	2	1	3	1	4	...
Organic Heart Disease	...	...	...	...	...	73	44	28	13	11	7	13	2
Bronchitis	...	...	...	...	...	68	10	9	4	5	6	6	...
Pneumonia (all forms)	...	...	...	...	...	90	16	7	9	5	3	6	3
Other Diseases of Respiratory Organs	...	...	...	...	...	15	5	3	2	2	3	1	...
Diarrhoea and Enteritis (under 2 years)	...	...	...	...	...	16	5	5	3	4	...	1	...
Appendicitis and Typhlitis	...	...	...	...	...	11	3	1	3	2	1	...	...
All Liver Diseases (not Malignant)	...	...	...	...	...	6	3	1	1	1	1	...	1
Other Diseases of Digestive System	...	...	...	...	...	41	7	6	3	4	3	4	...
Nephritis and Bright's Disease	...	...	...	...	...	53	14	4	3	3	2	5	4
Puerperal Sepsis	...	...	...	...	...	5	3	...	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	...	...	12	...	...	1	...	...	...	...
Congenital Debility and Malformation, including Premature Birth	...	...	...	...	...	70	13	4	3	1	4	4	1
Violent Deaths, excluding Suicide	...	...	...	...	...	39	10	6	4	3	3	4	2
Suicide	...	...	...	...	...	3	1	2	...	...	1	1	...
Other Defined Diseases	...	...	...	...	...	255	80	60	42	24	27	20	10
Diseases Ill-defined or Unknown	...	...	...	...	...	38	2	1	3	2	1	1	1
All Causes		...	1220	321	191	177	105	93	100	33			
AGE AT DEATH.													
Under 1	...	...	...	...	...	190	30	18	23	10	8	17	1
1-4	...	...	...	...	...	194	22	12	39	12	7	14	3
5-9	...	...	...	...	...	46	11	5	6	4	2	2	2
10-14	...	...	...	...	...	25	6	5	3	8	1	1	...
15-24	...	...	...	...	...	51	15	8	9	2	6	6	1
25-34	...	...	...	...	...	64	19	11	7	5	7	4	1
35-44	...	...	...	...	...	89	22	19	8	7	10	5	...
45-54	...	...	...	...	...	132	41	15	19	13	11	9	4
55-64	...	...	...	...	...	158	43	34	22	19	12	17	7
65-74	...	...	...	...	...	169	68	35	27	17	18	13	7
75 and over	...	...	...	...	...	102	44	29	14	8	11	12	7
All Ages		...	1220	321	191	177	105	93	100	33			

DEATHS IN EACH TOWN (corrected for Transfers)—July 1917—continued.

CAUSES OF DEATH.										
			Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.
Enteric Fever	...	...	...	...	1	...	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	12	3	...	7	...	1	1
Scarlet Fever	...	...	...	2	2	...	4	3	1	1
Whooping-cough	...	...	2	7	...	4	3	3	1	1
Diphtheria and Croup	...	...	...	1	...	...	...	...	...	...
Influenza	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	1	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	...	4	5	1	2	2	7	10	1
Tuberculous Meningitis	...	...	1	2	1	...	1	...	1	1
Abdominal Tuberculosis	...	...	2	1	...	3	...	...	1	1
Other Tuberculous Diseases	...	...	1	1	...	1	1	...	...	...
Cancer, Malignant Disease	...	...	4	2	2	4	4	2	4	3
Rheumatic Fever	...	...	...	...	...	1	...	...	...	...
Meningitis	...	...	...	...	1	1	1	1	1	1
Organic Heart Disease	...	...	6	1	4	3	2	...	6	2
Bronchitis	...	...	3	...	...	2	4	2	2	2
Pneumonia (all forms)	...	...	4	4	3	3	5	1	3	...
Other Diseases of Respiratory Organs	...	2	...	...	...	...	1	...	...	...
Diarrhoea and Enteritis (under 2 years)	...	...	1	1	...	1	1	4	1	1
Appendicitis and Typhlitis	...	...	2	1	1	...	1	...	2	...
All Liver Diseases (not Malignant)	...	2	1	1	...	1	1	...	3	...
Other Diseases of Digestive System	...	1	5	2	1	1	1	...	...	...
Nephritis and Bright's Disease	...	...	3	...	1	1	1	2	...	...
Puerperal Sepsis	...	...	...	...	...	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	2	...	1	...	...	...	...	...	...
Congenital Debility and Malformation, including Premature Birth	...	...	3	3	3	9	1	4	2	2
Violent Deaths, excluding Suicide	...	...	10	1	1	4	...	...	1	...
Suicide	...	...	...	...	...	...	...	...	...	1
Other Defined Diseases	...	8	11	7	7	11	18	6	6	6
Diseases Ill-defined or Unknown	...	...	...	1	...	1	3	1	1	1
All Causes	...	44	72	32	38	60	44	48	24	
AGE AT DEATH.										
Under 1	...	...	2	11	5	9	25	4	7	5
1-4	...	...	2	22	5	3	8	5	4	1
5-9	...	...	3	7	...	...	2	...	1	1
10-14	...	...	1	2	...	2	...	2	1	...
15-24	...	...	1	6	1	4	4	2	3	3
25-34	...	...	7	5	2	2	...	...	6	1
35-44	...	...	3	3	2	3	1	4	1	...
45-54	...	...	7	3	5	5	5	6	6	4
55-64	...	...	6	6	6	3	7	7	10	4
65-74	...	...	7	7	4	5	6	5	4	2
75 and over	...	5	...	2	2	2	9	5	5	3
All Ages	...	44	72	32	38	60	44	48	24	

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,
During the Month of JULY 1917.

During the Month of July 1917.

Printed under the authority of His Majesty's Stationery Office
By J. SKINNER & Co., LTD., Thistle Street, Edinburgh.

FOR OFFICIAL USE.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

AUGUST 1917.

Published by Authority of the Registrar-General.

REPORT.

During the month of August 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the date of the 1911 Census had populations of over 30,000, the births of 3802 living children, of whom 1930 were male and 1872 were female. The male children are 193 fewer than in the previous month, and 522 fewer than in the corresponding month of last year. The female children are 158 fewer than in the previous month, and 297 fewer than in the corresponding month of last year. The total children of the month are 351 fewer than in the previous month, 449 fewer than the mean of the numbers of the three preceding months, and 819 fewer than in August of last year. The equivalent annual birth-rate is 18·6 per thousand of the estimated aggregate populations of these towns. It is 1·8 less than that of the previous month, 2·5 less than the mean of those for the three preceding months, and 4·4 less than that for August of last year. In the individual towns the monthly birth-rate ranged from 26·0 in Greenock, 25·3 in Hamilton, and 22·7 in Motherwell, to 9·7 in Perth, 12·7 in Kirkcaldy, and 13·5 in Falkirk. In Coatbridge it was 21·5; in Glasgow, 20·4; in Ayr, 19·9; in Kilmarnock, 18·4; in Leith, 18·1; in Paisley, 17·5; in Aberdeen and in Clydebank, 17·4; in Dundee, 14·8; and in Edinburgh, 14·7.

Of the 3802 children whose births were registered during the month, 3465, or 91·1 per cent., were legitimate, while 337, or 8·9 per cent., were illegitimate. The illegitimate births are the same as in the previous month, but 14 fewer than the mean of the numbers of the three preceding months, and 25 fewer than in August of last year. The illegitimate rate is 0·8 more than in the previous month, 0·6 more than the mean of those for the three preceding months, and 1·1 more than that for the corresponding month of last year. In the towns taken individually this rate ranged from 15·2 in Dundee, 12·8 in Edinburgh and in Falkirk, and 12·7 in Aberdeen, to 1·4 in Clydebank, 3·1 in Leith, and 3·4 in Perth. In Glasgow and in Kilmarnock it was 8·6; in Greenock, 7·4; in Ayr, 7·1; in Paisley, 6·0; in Kirkcaldy, 4·5; in Coatbridge and in Motherwell, 3·7; and in Hamilton, 3·6.

Marriages registered in these towns during the month numbered 1421. They are 617 fewer than in the previous month, 214 fewer than the mean of the numbers of the three preceding months, and 153 fewer than in August of last year. The equivalent annual marriage-rate is 7·0 per thousand, which is 3·0 less than that for the previous month, 1·1 less than the mean for the three preceding months, and 0·8 less than that for August of last year. In the towns taken individually this rate ranged from 8·8 in Edinburgh, 8·7 in Perth, and 7·8 in Ayr, to 2·3 in Clydebank,

3·0 in Hamilton, and 3·4 in Motherwell. In Aberdeen and in Paisley it was 7·7; in Glasgow and in Dundee, 7·1; in Leith, 5·8; in Greenock, 5·6; in Kirkcaldy, 4·9; in Coatbridge, 4·8; in Kilmarnock, 4·5; and in Falkirk, 3·8.

Deaths registered in these towns numbered 2309, of which 1189 were of males and 1120 of females. These deaths include those of 244 persons with usual residence outwith the town of registration, but they exclude those of 202 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 42, falls to be deducted to get the corrected number for the month, which is thus found to be 2267. This number is 335 less than that of the previous month, 650 less than the mean of the numbers of the three preceding months, and 189 less than in August of last year.

The death-rate for the month, corrected, is 11·1 per thousand. It is 1·7 less than that for July, 3·4 less than the mean of the rates for the three preceding months, and 1·1 less than that for August of last year. In the towns taken individually the monthly death-rate ranged from 14·6 in Ayr, 13·3 in Perth, and 12·4 in Greenock, to 7·1 in Clydebank, 8·6 in Falkirk, and 9·4 in Leith. In Glasgow it was 11·7; in Hamilton, 11·6; in Motherwell and in Kilmarnock, 11·5; in Paisley, 10·8; in Edinburgh, 10·5; in Aberdeen, 10·4; in Dundee, 10·2; in Coatbridge, 10·1; and in Kirkcaldy, 9·5.

Deaths of children of less than one year old numbered 404. They are 39 more than in the previous month, but 54 fewer than the mean of the numbers of the three preceding months, and 42 fewer than in August of last year. They are equal to an infantile mortality rate of 93 per thousand of the average number of births registered monthly during the past twelve months. This rate is 10 more than that for the previous month, but is 10 less than the mean of the rates for the three preceding months, and 2 less than that for the corresponding month of last year. In the towns taken individually this rate ranged from 115 in Glasgow, 106 in Perth, and 105 in Falkirk, to 16 in Kirkcaldy, 34 in Hamilton, and 51 in Leith. In Ayr it was 102; in Coatbridge, 89; in Greenock, 86; in Aberdeen and in Paisley, 82; in Kilmarnock, 79; in Clydebank, 68; in Dundee, 65; in Motherwell, 64; and in Edinburgh, 59.

Deaths from the principal epidemic diseases numbered 274, and included 38 from measles, 5 from scarlet fever, 57 from whooping-cough, 13 from diphtheria, and 161 from the diarrhoeas of childhood. For the first time in this series of monthly returns, no deaths were registered as due to enteric fever. These deaths collectively are 55 fewer than in the previous month, and 199 fewer than the mean of the numbers of the three preceding months, but are 21 more than in August of last year. Deaths from whooping-cough are 84 fewer than in the previous month, from measles 83 fewer, from scarlet fever 4 fewer, and from diphtheria 1 fewer, but those from the diarrhoeas of childhood are 119 more. The monthly death-rate from these causes is 1·3 per thousand. It is 0·3 less than in the previous month, 1·1 less than the mean of the rates for the three preceding months, and is the same as in August of last year. This rate ranged from 2·2 in Kilmarnock, 2·0 in Motherwell, and 1·8 in Glasgow, to 0·3 in Edinburgh, 0·4 in Dundee, and 0·6 in Kirkcaldy.

Deaths from pneumonia numbered 111, being 51 fewer than in the previous month. Deaths from bronchitis numbered 84, being 39 fewer than in the previous month.

Deaths from all forms of tuberculous disease numbered 301, of which 193 were ascribed to phthisis. The former are 55 fewer than in the previous month, but 9 more than in August of last year. The latter are 28 fewer than in the previous month, but 14 more than in August of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
 by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
 Meteorological Society.

AUGUST 1917.

Mean barometric pressure, 29·604 in.; less than the average of 1881–1915 by 0·255 in.

Mean temperature, 58°·8; greater by 1°·5.

Mean daily range of temperature, 10°·8; less by 3°·2.

Rain, number of days, 24; greater by 6 days.

Rain, depth in inches, 4·42; greater by 0·80 in.

Wind, direction of: a 5 days' excess of winds from between N.E. and S.E.

Hence the month was characterised by an abnormally low mean pressure; a rather high mean temperature, with an abnormally low mean daily range; a rather high mean rainfall; and a considerable excess of easterly winds.

Conditions were for the most part of a cyclonic type, and especially disturbed from 26th to 28th, when a low pressure system of unusual depth crossed our Islands on a north-easterly track. The mean pressure for the month was 29·604 in., or 0·255 in. below the normal, and the lowest recorded in August for at least 50 years. At Leith, at sea-level, pressure was above 30 in. only on 1st and 5th, and the extremes there were 30·11 in. on 1st and 28·65 in. on 28th.

A striking feature of the month was the very moderate fluctuation of the night temperatures. With generally cloudy skies, the natural accompaniment of low atmospheric pressure, and consequent restriction of terrestrial radiation, these were as a rule decidedly above the normal; higher on the average than in any August for at least 50 years; and, leaving out of account fairly low readings around 20th or on 31st, showed at many stations a variation of only 5 or 6 degrees throughout the month. Day temperatures also were moderate for a summer month, though very high in north and west from 5th to 7th—as high as 84° at Nairn on 6th—and fairly high more or less generally on 1st, 10th or 17th. For the chief towns the mean was 58°·8, or 1°·5 above the normal; the days were 0°·1 below and the nights 3°·1 above their respective averages; the mean daily range the lowest on record; and the extremes were 77° at Paisley on 1st and 42° at Perth on 31st.

Except in the east little or no rain fell during the first week, and Orkney experienced all but rainless weather until 16th. By 8th conditions had become unsettled generally and remained more or less so throughout the month, with some heavy falls in most districts, especially from 8th to 18th, 22nd to 24th, and 26th to 28th. Falls exceeding 1 in. occurred at Eskdalemuir on 11th, and at Dalkeith and Dundee, during thunderstorms, on 14th; Ford, on Loch Awe, recorded 1·42 in. on 22nd, with as much as 2·46 in. on 23rd; on both 26th and 27th Marchmont in Berwickshire had more than 1 in.; and on 28th a severe rainstorm was general in east and north, with numerous falls exceeding 1 in. and as much as 2·40 in. at Ardross Castle in Ross-shire. Except in the extreme north and at some western stations aggregates were above the normal, in most eastern districts decidedly so, and in Berwickshire the month was the wettest August on record. At Edinburgh, however, the total of about 4 $\frac{3}{4}$ in. compared with fully 7 in. in 1915. The number of "rain days" was unusually large. The mean for the chief towns was 4·42 in., or 22 per cent. above the normal.

On 28th the weather was stormy with a north-easterly wind.

There were thunderstorms at one or more points on almost every day during the second and third weeks,—at both Edinburgh and Glasgow on 7 days. On the afternoon of 14th some structural damage was done near Edinburgh.

In the east and north much fog occurred during the first week.

Sunshine amounts were much below the normal in east; about the normal in west; and slightly in excess in Orkney.

Aurora was observed at Stornoway on 13th and 14th; at Dundee on 21st; and at Deerness on 21st and 25th.

NOTE.—For meteorological table see p. 64.

Abstract.

TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, AUGUST 1917.

TOWNS.	POPULATION.		BIRTHS.				MARRIAGES.	DEATHS.						
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	Males.	Females.	Total.	Out.	In.	Total Corrected.	
GLASGOW, . .	1,008,487	1,115,800	987	950	1987	1771	166	676	597	536	1133	91	70	1112
EDINBURGH, . .	320,769	331,800	198	215	413	360	53	249	145	163	308	60	49	297
DUNDEE, . .	176,085	184,300	132	99	231	196	35	111	83	87	170	12	2	160
ABERDEEN, . .	163,891	165,700	123	122	245	214	31	108	88	80	168	29	7	146
PAISLEY, . .	84,455	89,700	62	71	133	125	8	59	43	37	80	5	7	82
LEITH, . .	80,601	82,800	64	63	127	123	4	41	23	21	44	3	25	66
GREENOCK, . .	75,140	79,600	91	85	176	163	13	38	41	47	88	7	3	84
PERTH, . .	35,854	35,400	16	13	29	28	1	26	23	21	44	7	3	40
TOTAL . . (EIGHT TOWNS)	1,945,282	2,085,100	1673	1618	3291	2980	311	1308	1043	992	2035	214	166	1987
COATBRIDGE, . .	43,290	44,300	35	46	81	78	3	18	25	12	37	3	4	38
MOTHERWELL . .	40,380	42,000	48	33	81	78	3	12	15	19	34	1	8	41
KIRKCALDY . .	39,601	40,900	20	24	44	42	2	17	14	15	29	1	5	33
HAMILTON, . .	38,644	38,600	45	38	83	80	3	10	18	18	36	3	5	38
CLYDEBANK, . .	37,548	46,700	39	30	69	68	1	9	13	14	27	2	3	28
KILMARNOCK, . .	34,728	37,000	23	30	58	53	5	14	23	14	37	8	7	36
FALKIRK, . .	33,574	34,100	19	20	39	34	5	11	14	17	31	7	1	25
AYR, . .	32,986	33,100	23	33	56	52	4	22	24	19	43	5	3	41
TOTAL . . (SIXTEEN TOWNS)	2,246,033	2,401,800	1930	1872	3802	3465	337	1421	1189	1120	2309	244	202	2267

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, AUGUST 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 OF POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.	
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.		
				Uncor- rected.	Cor- rected.				Number.		
GLASGOW, . .	20·4	8·6	7·1	12·0	11·7	1·8	1·6	1·0	1·1	252	115
EDINBURGH, . .	14·7	12·8	8·8	10·9	10·5	0·3	1·6	1·1	0·8	28	59
DUNDEE, . .	14·8	15·2	7·1	10·9	10·2	0·4	1·5	0·8	0·8	18	65
ABERDEEN, . .	17·4	12·7	7·7	11·9	10·4	1·8	1·0	0·6	1·1	22	82
PAISLEY, . .	17·5	6·0	7·7	10·5	10·8	1·8	1·6	1·1	1·4	13	82
LEITH, . .	18·1	3·1	5·8	6·3	9·4	0·9	1·6	1·0	1·0	7	51
GREENOCK, . .	26·0	7·4	5·6	13·0	12·4	0·9	2·4	1·5	0·9	16	86
PERTH, . .	9·7	3·4	8·7	14·7	13·3	1·7	1·3	1·0	1·0	5	106
TOTAL . . (EIGHT TOWNS)	18·6	9·5	7·4	11·5	11·2	1·3	1·5	1·0	1·0	361	97
COATBRIDGE, . .	21·5	3·7	4·8	9·8	10·1	0·8	2·4	1·3	0·3	9	89
MOTHERWELL, . .	22·7	3·7	3·4	9·5	11·5	2·0	1·4	0·6	2·0	6	64
KIRKCALDY, . .	12·7	4·5	4·9	8·3	9·5	0·6	0·9	0·3	1·7	1	16
HAMILTON, . .	25·3	3·6	3·0	11·0	11·6	1·5	1·5	0·9	1·2	3	34
CLYDEBANK, . .	17·4	1·4	2·3	6·8	7·1	1·3	1·0	0·5	0·5	7	68
KILMARNOCK, . .	18·4	8·6	4·5	11·8	11·5	2·2	0·3	0·3	1·6	5	79
FALKIRK, . .	13·5	12·8	3·8	10·7	8·6	1·4	0·3	0·3	1·0	6	105
AYR, . .	19·9	7·1	7·8	15·3	14·6	0·7	0·4	0·4	1·8	6	102
TOTAL . . (SIXTEEN TOWNS)	18·6	8·9	7·0	11·3	11·1	1·3	1·5	0·9	1·0	404	93

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR AUGUST 1917, and for
the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL
TOWNS.

Month.	Birth-Rate.	Illegitimate Birth-rate per 100 Births.	Marriage-Rate.	Death-Rate.	DEATHS FROM								* Infantile Mortality Rate.	Mean Temperature (Eight Towns only.)
					Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-Cough.	Diphtheria and Croup.	Diarrhoea (Under 2 Years).			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)	
AUG. 1917, .	18·6	8·9	7·0	11·1	0	0	38	5	57	13	161	93	58°·8	
AUG. 1916, .	23·0	7·8	7·8	12·2	5	0	29	19	25	17	158	95	58°·9	
AUG. 1915, .	22·1	6·8	9·3	13·0	8	0	111	53	31	27	129	94	58°·1	
AUG. 1914, .	25·3	7·3	7·7	13·7	19	0	19	26	62	32	201	114	58°·6	
AUG. 1913, .	24·0	6·8	6·2	13·3	4	0	65	17	42	31	215	112	58°·1	
AUG. 1912, .	24·7	7·3	6·2	12·8	3	0	30	13	62	26	116	90	53°·6	
AUG. 1911, .	24·9	6·9	7·1	15·1	8	2	32	7	41	18	290	157	60°·7	
AUG. 1910, .	26·0	7·9	6·8	15·0	7	0	12	20	35	22	179	126	58°·1	
AUG. 1909, .	26·4	7·5	6·9	13·8	11	0	22	19	42	21	113	109	58°·1	
AUG. 1908, .	26·7	8·2	7·0	15·4	15	0	15	6	79	17	-	131	57°·1	
AUG. 1907, .	26·1	7·4	6·8	14·1	14	0	19	7	93	21	-	94	55°·0	

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—August 1917.

Causes of Death

DEATHS IN EACH TOWN (corrected for Transfers)—August 1917.

		CAUSES OF DEATH.		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever
Typhus Fever
Small-pox	17	2	...	10	1	1	...	...
Measles	1	1	...	...	...	...	...	...
Scarlet Fever	34	3	...	6	4	...	3	2
Whooping-cough	4	2	...	2	1	2	...	1
Diphtheria and Croup	1	...	...	...	...
Influenza	1	1	...	...	...	...	...	...
Erysipelas	97	30	13	9	8	7	10	3
Phthisis, Pulmonary Tuberculosis	14	6	3	1	1	4	2	...
Tuberculous Meningitis	18	2	5	3	1	...	3	1
Abdominal Tuberculosis	18	7	2	1	2	...	1	...
Other Tuberculous Diseases	115	39	25	12	3	8	5	6
Cancer, Malignant Disease	1	...	1	...	...	...	2	...
Rheumatic Fever	20	1	1	1	...	...	4	...
Meningitis	85	35	25	16	9	10	5	8
Organic Heart Disease	39	7	6	6	3	3	3	3
Bronchitis	56	14	6	6	6	4	3	...
Pneumonia (all forms)	7	2	1	3	2	...	...	...
Other Diseases of Respiratory Organs	115	1	6	8	4	3	3	2
Diarrhoea and Enteritis (under 2 years)	5	3	1	1	1	...	...	...
Appendicitis and Typhlitis	7	1	...	...	...	...	1	...
All Liver Diseases (not Malignant)	50	19	3	7	6	2	1	...
Other Diseases of Digestive System	48	8	2	2	...	2	3	1
Nephritis and Bright's Disease	2	...	...	...	...	...	1	1
Puerperal Sepsis	1	...	1	2	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	63	14	8	7	2	1	6	...
Congenital Debility and Malformation, including Premature Birth	38	20	5	2	7	4	6	...
Violent Deaths, excluding Suicide	3	2	...	1	...	...	...	...
Suicide	231	73	43	37	21	14	22	12
Other Defined Diseases	22	4	3	2	...	1	...	...
Diseases Ill-defined or Unknown	1112	297	160	146	82	66	84	40
		All Causes	...	1112	297	160	146	82	66	84	40
AGE AT DEATH.											
Under 1	252	28	18	22	13	7	16	5
1-4	112	17	9	28	6	11	12	3
5-9	35	7	...	2	2	2	5	...
10-14	20	8	3	1	3	1	3	...
15-24	50	15	5	4	7	3	4	1
25-34	50	18	5	4	7	1	5	2
35-44	93	21	13	6	8	3	7	2
45-54	124	32	21	20	8	7	7	5
55-64	139	47	34	15	3	11	10	4
65-74	145	53	28	21	14	11	10	7
75 and over	92	51	24	23	11	9	5	11
		All Ages	...	1112	297	160	146	82	66	84	40

DEATHS IN EACH TOWN (corrected for Transfers)—August 1917—continued.

CAUSES OF DEATH.										
										Ayr.
Enteric Fever	...	...	...	...	...	Coatbridge.	Motherwell.	Kirkcaldy.	Clydebank.	Kilmarnock.
Typhus Fever	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	3	3	1	1	1	1
Measles	...	...	...	...	3	3	1	1	1	1
Scarlet Fever	...	...	...	...	3	3	1	1	2	2
Whooping-cough	...	...	...	...	...	...	1	2	2	...
Diphtheria and Croup	...	...	...	...	...	...	...	...	...	1
Influenza	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	...	5	2	1	3	2	1	1	1
Tuberculous Meningitis	...	...	...	1	...	1	2	...	...	...
Abdominal Tuberculosis	...	...	2	2	1	...	...	...	...	...
Other Tuberculous Diseases	...	...	2	...	1	1	...	...	...	...
Cancer, Malignant Disease	...	...	6	3	1	5	1	6	2	2
Rheumatic Fever	...	...	...	...	...	...	...	...	...	...
Meningitis	...	...	1	1	2	...	3	1	...	2
Organic Heart Disease	...	...	2	3	8	1	4	3	3	3
Bronchitis	...	...	1	3	4	1	1	1	1	1
Pneumonia (all forms)	...	...	...	4	1	3	1	3	2	2
Other Diseases of Respiratory Organs	...	...	...	...	1	...	...	1	...	1
Diarrhoea and Enteritis (under 2 years)	...	3	1	1	1	3	2	5	2	2
Appendicitis and Typhlitis	...	1	...	...	...	1	...	...	...	1
All Liver Diseases (not Malignant)	...	...	1	1	...	...	...	...	...	...
Other Diseases of Digestive System	...	1	2	1	1	2	1	2	1	2
Nephritis and Bright's Disease	...	...	1	1	...	...	...	...	...	2
Puerperal Sepsis	...	...	...	...	...	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	2	1	1	...	...	1	1	...
Congenital Debility and Malformation, including Premature Birth	...	...	2	2	...	...	1	...	2	1
Violent Deaths, excluding Suicide	...	3	4	...	...	3	2	1	...	3
Suicide	...	...	...	...	1	...	...	1	...	...
Other Defined Diseases	...	7	4	7	12	5	5	5	8	16
Diseases Ill-defined or Unknown	...	...	...	...	...	...	...	3	...	1
All Causes	...	38	41	33	38	28	36	25	41	
AGE AT DEATH.										
Under 1	...	...	...	9	6	1	3	7	5	6
1- 4	...	...	...	1	7	3	6	9	2	1
5- 9	...	...	...	...	3	...	...	1	...	1
10-14	...	...	...	2	2	...	1	...	1	...
15-24	...	...	...	2	2	1	2	1	...	1
25-34	...	...	...	3	4	3	4	1	3	2
35-44	...	...	...	7	3	1	3	3	3	1
45-54	...	...	...	4	5	5	1	4	4	2
55-64	...	...	...	4	2	5	4	...	4	4
•65-74	...	...	...	3	5	12	9	1	8	4
75 and over	...	...	...	3	2	2	5	1	6	3
All Ages	...	38	41	33	38	28	36	25	41	

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,

During the Month of AUGUST 1917.

OBSERVERS.	RAKO-METER.		AIR TEMPERATURE.		HYGROMETER.		RAIN, AND OTHER FORMS OF PRECIPITATION.		WIND DIRECTIONS.						Calm or Variable.		
									Number of Observations at 9 A.M. and 9 P.M.								
	Mean of Minimum (B.)	Maximum (A.)	Absolute Maximum and Minimum.	Mean at 9 A.M. and 9 P.M.	Dry Bulb.	Vapour Pressure.	Depression of Wet Bulb.	Total Fall.	N	NE	E	SE	S	SW	W	NW	
GLASGOW, JAMES CONNELL, The Observatory.	184	29.410	29.609	64.5	54.1	59.3	+2.2	74	1st	49	1,20, 31	57.9	2.6	.403	.84	22	4.12 +0.21
EDINBURGH, PROFESSOR R. A. SAMPSON, F.R.S., Royal Observatory.	441	29.133	29.599	62.0	52.9	57.5	+0.8	68	10th	49	1,20, 27	56.2	2.1	.391	.87	24	4.77 +1.85
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	164	29.427	29.604	65.0	52.8	58.9	+1.6	72	1st	48	1,31	56.8	1.4	.420	.91	29	5.56 +2.18
ABERDEEN,* The Meteorological Office.	90	29.505	29.604	62.2	53.0	57.6	+1.4	70	6, 17	46	31st	57.2	1.8	.415	.88	25	3.63 +0.89
PAISLEY, The Coats Observatory.	107	29.495	29.611	66.4	53.8	60.1	+1.6	77	1st	48	1,20	59.0	2.9	.410	.83	20	2.86 -1.05
LEITH,† JAMES BOLAM, Navigation School.	76	29.521	29.603	62.9	54.3	58.6	+0.3	69	1st	50	20th	58.3	2.4	.414	.84	25	4.05 +0.78
GREENOCK, DANIEL MACALISTER, C.E., Greenock Waterworks.	233	29.346	29.605	64.2	54.2	59.2	+2.0	73	3rd	48	1st	58.4	3.0	.399	.81	24	4.69 -0.75
PERTH, HENRY COATES, F.R.S.E.,	62	29.527	29.594	66.8	52.1	59.5	+2.2	76	7th	42	31st	58.1	2.0	.423	.87	19	5.67 +2.30
Means	170	29.421	29.604	64.2	53.4	58.8	+1.5	57.7	2.8	.409	.86	24	4.42 +0.80

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North Latitude.—Glasgow, 55° 51'; Edinburgh, 56° 55'; Dundee, 56° 28'; Aberdeen, 57° 9'; Paisley, 55° 57'; Leith, 55° 51'; Greenock, 55° 57'; Perth, 56° 23'; Mean, 56° 11'. West Longitude.—Glasgow, 4° 13'; Edinburgh, 3° 11'; Dundee, 2° 57'; Aberdeen, 2° 7'; Paisley, 4° 27'; Leith, 3° 8'; Greenock, 4° 46'; Perth, 3° 25'; Mean, 3° 32'.

* At King's College, 9 1/2 A.M. and 8 P.M.
† At 8 A.M. only.

FOR OFFICIAL USE.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

SEPTEMBER 1917.

Published by Authority of the Registrar-General.

REPORT.

During the month of September 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the date of the 1911 Census had populations of over 30,000, the births of 3457 living children, of whom 1767 were male and 1690 female. The male children are 163 fewer than in the previous month, and 408 fewer than September of last year. The female births are 182 fewer than in the previous month, and 362 fewer than in September of last year. The total children for the month are 345 fewer than in the previous month, 602 fewer than the mean for the three preceding months, and 770 fewer than in September of last year. The equivalent annual birth-rate is 17·5 per thousand. This rate is 1·1 less than that for the previous month, 2·6 less than the mean of the rates for the three preceding months, and 4·2 less than that for September of last year. In the individual towns the birth-rate ranged from 23·7 in Motherwell, 23·1 in Coatbridge, and 22·2 in Clydebank, to 10·7 in Perth, 13·2 in Dundee, and 13·7 in Edinburgh. In Greenock it was 22·0; in Hamilton, 20·8; in Glasgow, 18·9; in Kilmarnock, 18·1; in Paisley, 17·6; in Ayr, 16·9; in Falkirk, 16·8; in Aberdeen, 16·4; in Leith, 15·9; and in Kirkcaldy, 14·0.

Of the 3457 children whose births were registered, 3120, or 90·3 per cent., were legitimate, and 337, or 9·7 per cent., were illegitimate. The illegitimate births number the same as in August and July of this year, but are 9 below the mean of the numbers for the three months June to August, and 34 more than in September of last year. The illegitimate rate is 0·8 above that for the previous month, 1·2 above the mean of the rates for the three preceding months, and 2·5 above that for the corresponding month of last year. In the towns taken individually this rate ranged from 17·2 in Edinburgh, 15·5 in Dundee, and 12·5 in Aberdeen, to 2·1 in Kirkcaldy, and 2·4 in Motherwell and in Clydebank. In Hamilton it was 12·1; in Ayr, 10·9; in Glasgow and in Leith, 9·3; in Perth, 6·5; in Falkirk, 6·4; in Kilmarnock, 5·5; in Paisley, 5·4; in Greenock, 4·2; and in Coatbridge, 3·6.

Marriages registered in these towns numbered 1569. They are 148 more than in the previous month, 222 less than the mean for the three preceding months, and 193 more than in September of last year. The equivalent annual marriage-rate is 7·9 per thousand, which is 0·9 above that for the previous month, 1·0 below the mean of the rates for the three preceding months, and 0·8 above that for September of last year. In the individual towns this rate ranged from 10·1 in Edinburgh, 9·3 in Perth, and 8·7 in Aberdeen, to 3·6 in Falkirk, 3·9 in Clydebank, and 4·4 in Hamilton. In Glasgow it was 8·5; in Motherwell, 8·4; in Dundee, 7·3; in

Greenock, 7·2; in Kilmarnock, 6·6; in Kirkcaldy, 5·7; in Ayr, 5·5; in Coatbridge, 5·2; in Leith, 5·1; and in Paisley, 5·0.

Deaths registered in these towns numbered 2260, of which 1147 were of males and 1113 of females. These deaths include those of 231 persons with usual residence outwith the town of registration, but they exclude those of 152 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 79, falls to be deducted to get the corrected number for the month, which is thus found to be 2181. This number is 86 less than that for the previous month, 378 less than the mean for the three preceding months, and 438 less than in September of last year.

The death-rate for the month, corrected, is 11·0 per thousand. It is 0·1 below that for the previous month, 1·7 below the mean of the rates for the three preceding months, and 2·5 below that for September of last year. In the towns taken individually this rate ranged from 13·7 in Coatbridge, 12·9 in Hamilton, and 11·9 in Dundee, to 6·8 in Falkirk, 7·2 in Motherwell, and 8·3 in Kirkcaldy. In Glasgow it was 11·4; in Paisley and in Greenock, 11·3; in Kilmarnock, 11·2; in Edinburgh and in Aberdeen, 10·9; in Perth, 10·3; in Leith, 10·0; in Clydebank, 8·9; and in Ayr, 8·8.

Deaths of children of less than one year old numbered 394. They are 10 fewer than in the previous month, 6 fewer than the mean of the numbers for the three preceding months, and 175 fewer than in September of last year. They are equal to an infantile mortality rate of 95 per thousand of the average number of births registered monthly during the previous twelve months. This rate is 2 more than in the previous month, and 3 more than the mean of the rates for the three preceding months, but is 30 less than the rate for September of last year. In the towns taken individually this rate ranged from 131 in Hamilton, 127 in Dundee, and 106 in Paisley, to 22 in Motherwell, 37 in Falkirk, and 51 in Clydebank. In Glasgow it was 105; in Aberdeen, 97; in Perth, 93; in Greenock, 84; in Kilmarnock, 83; in Edinburgh, 78; in Ayr, 73; in Kirkcaldy, 69; in Coatbridge, 63; and in Leith, 62.

Deaths from the principal epidemic diseases numbered 212, and included 1 from enteric fever (being the first registered in these towns over a period of nine consecutive weeks), 13 from measles, 7 from scarlet fever, 61 from whooping-cough, 22 from diphtheria, and 108 from the diarrhoeas of childhood. These deaths collectively are 62 fewer than in the previous month, 144 fewer than the mean of the numbers for the three preceding months, and 148 fewer than in September of last year. Compared with the numbers for the previous month, deaths from diphtheria are 9 more, from whooping-cough 4 more, from scarlet fever 2 more, and from enteric fever 1 more, but those from measles are 25 fewer, and those from the diarrhoeas of childhood are 53 fewer. The monthly death-rate from these causes was 1·1 per thousand, being 0·2 below that for the previous month, 0·7 below the mean for the three preceding months, and 0·8 below that for September of last year. This rate ranged from 1·6 in Kilmarnock and 1·4 in Aberdeen, to 0·4 in Ayr, and 0·6 in Edinburgh and in Kirkcaldy.

Deaths from pneumonia numbered 117, being 6 more than in the previous month. Deaths from bronchitis numbered 85, being 1 more than in the previous month.

Deaths from all forms of tuberculosis numbered 254, of which 169 were ascribed to phthisis. The former are 47 fewer than in the previous month, and 45 fewer than in September of last year. The latter are 24 fewer than in the previous month, and 17 fewer than in September of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
Meteorological Society.

SEPTEMBER 1917.

Mean barometric pressure, 29·861 in.; less than the average of 1881-1915 by 0·087 in.

Mean temperature, 55°·1; greater by 1°·3.

Mean daily range of temperature, 12°·3; less by 1°·2.

Rain, number of days, 18; greater by 3 days.

Rain, depth in inches, 1·94; less by 0·69 in.

Wind, direction of: a 6 days' excess of winds from S.W.

Hence the month was characterised by a low mean pressure; a somewhat high mean temperature, with a rather low mean daily range; a rather low mean rainfall; and a large excess of south-westerly winds.

Conditions were almost continuously of an unsettled cyclonic type, and especially disturbed around 20th when a depression skirted the north of Scotland. The mean pressure for the month was 29·861 in., or 0·087 in. below the normal; and at Leith, at sea-level, pressure was above 30 in. only on 3rd, from 9th to 12th, on 23rd, 29th and 30th, the extremes there being 30·26 in. on 29th and 29·46 in. on 1st and 20th.

The mean temperature of the month was almost everywhere rather above the normal, and fluctuations were moderate. The days were seldom cold but seldom very warm, though fairly high readings occurred generally between 4th and 7th,—as high as 75° at Kilmarnock on 5th,—and in some eastern districts on 25th. With rather cloudy skies the nights were almost uniformly mild, but rather sharp touches of cold occurred around 10th and 18th, with readings at Braemar on 10th of 28° in screen and 22° on a thermometer exposed in the open. For the chief towns the mean was 55°·1, or 1°·3 above the normal; the days being 0°·7 and the nights 1°·9 above their respective averages; and the extremes were 71° at Perth on 7th and 35° at Perth on 10th.

As regards rainfall, Scotland showed a very wide range of conditions both in the actual amounts recorded and the relation of these to the normal. In eastern, inland, and some western districts there was a decided deficiency, and at Edinburgh, for example, the month's total was only 1 in. In south, north-west, and extreme north, on the other hand, there was a more or less decided excess, and in Shetland the month was the wettest September on record. At Glenquoich, in the West Highlands, the aggregate of 15·75 in. was the largest for September since 1892. In the east there were many days with little or no rain, and from 2nd to 10th or 11th amounts were generally unimportant except on one or two days towards the north. Otherwise conditions were mostly wet and unsettled with falls exceeding 1 in. in south on 1st; at Lerwick on 4th; at various points on 13th, when the most general rainstorm of the month occurred; at Lerwick on 15th; and towards the north-west on 20th, 24th, 26th and 27th. Towards the north-west rain fell on every day from 10th to 29th, and at Glenquoich a fall of 1·08 in. on 26th was followed by as much as 3·22 in. on 27th. The mean for the chief towns was 1·94 in., or 26 per cent. below the normal.

The persistence of south-westerly winds was remarkable, and these were often of considerable force and very squally in character, especially on 20th, when a gale was widely experienced, and on some later days.

Thunderstorms occurred at one or two points on 1st, 15th and 18th.

There was a good deal of mist throughout the month, with fog during the first week or so.

Sunshine amounts were below the normal except towards the north-east.

Aurora was observed at Aberdeen on 8th; here and there on 17th and 18th; and at Aberdeen on 20th.

NOTE.—For meteorological table see p. 72.

*Abstract.*TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, SEPTEMBER 1917.

TOWNS.	POPULATION.		BIRTHS.					MARRIAGES.					DEATHS.				
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	Males.	Females.	Total.	Out.	In.	Total Corrected.				
GLASGOW, .	1,008,487	1,115,800	898	837	1735	1573	162	778	577	500	1077	79	46	1044			
EDINBURGH, .	320,769	331,800	184	139	373	309	64	276	158	175	333	66	30	297			
DUNDEE, .	176,085	184,300	95	105	200	169	31	110	86	98	184	8	5	181			
ABERDEEN, .	163,891	165,700	107	117	224	196	28	118	80	82	162	21	8	149			
PAISLEY, .	84,455	89,700	67	63	130	123	7	37	47	40	87	10	6	83			
LEITH, .	80,601	82,800	60	48	108	98	10	35	31	23	54	7	21	68			
GREENOCK, .	75,140	79,600	68	76	144	138	6	47	39	38	77	7	4	74			
PERTH, .	35,854	35,400	18	13	31	29	2	27	21	19	40	11	1	30			
TOTAL . (EIGHT TOWNS)	1,945,282	2,085,100	1497	1448	2945	2635	310	1428	1039	975	2014	209	121	1926			
COATBRIDGE, .	43,290	44,300	41	43	84	81	3	19	18	29	47	1	4	50			
MOTHERWELL .	40,380	42,000	41	41	82	80	2	29	11	15	26	1	0	25			
KIRKCALDY .	39,601	40,900	26	21	47	46	1	19	14	14	28	0	0	28			
HAMILTON, .	38,644	38,600	34	32	66	58	8	14	14	20	34	2	9	41			
CLYDEBANK, .	37,548	46,700	48	37	85	83	2	15	11	13	24	1	11	34			
KILMARNOCK, .	34,728	37,000	29	26	55	52	3	20	15	20	35	5	4	34			
FALKIRK, .	33,574	34,100	22	25	47	44	3	10	14	8	22	4	1	19			
AYR, .	32,986	33,100	29	17	46	41	5	15	11	19	30	8	2	24			
TOTAL . (SIXTEEN TOWNS)	2,246,033	2,401,800	1767	1690	3457	3120	337	1569	1147	1113	2260	231	152	2181			

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, SEPTEMBER 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 of POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.					
				All Causes.		Principal Epidemic Diseases,	Tuber- culosis,	Phthisis,	All Re- spiratory Diseases.						
				Uncor- rected.	Cor- rected.										
GLASGOW, .	18·9	9·3	8·5	11·7	11·4	1·3	1·4	0·9	1·3	219	105				
EDINBURGH, .	13·7	17·2	10·1	12·2	10·9	0·6	1·2	0·8	1·2	35	78				
DUNDEE, .	13·2	15·5	7·3	12·1	11·9	0·7	1·5	1·1	0·9	33	127				
ABERDEEN, .	16·4	12·5	8·7	11·9	10·9	1·4	1·6	1·0	0·8	25	97				
PAISLEY, .	17·6	5·4	5·0	11·8	11·3	1·1	0·9	0·7	0·9	16	106				
LEITH, .	15·9	9·3	5·1	7·9	10·0	0·7	1·8	1·0	0·6	8	62				
GREENOCK, .	22·0	4·2	7·2	11·8	11·3	0·9	0·8	0·6	0·8	15	84				
PERTH, .	10·7	6·5	9·3	13·8	10·3	0·7	0·7	0·7	1·7	4	93				
TOTAL . (EIGHT TOWNS)	17·2	10·5	8·3	11·8	11·2	1·1	1·3	0·9	1·2	355	100				
COATBRIDGE, .	23·1	3·6	5·2	12·9	13·7	1·1	1·6	0·8	1·9	6	63				
MOTHERWELL, .	23·7	2·4	8·4	7·5	7·2	0·9	0·6	0·6	0·3	2	22				
KIRKCALDY, .	14·0	2·1	5·7	8·3	8·3	0·6	1·2	0·9	0·6	4	69				
HAMILTON, .	20·8	12·1	4·4	10·7	12·9	1·3	0·9	0·6	0·3	11	131				
CLYDEBANK, .	22·2	2·4	3·9	6·3	8·9	1·3	1·0	0·5	1·0	5	51				
KILMARNOCK, .	18·1	5·5	6·6	11·5	11·2	1·6	1·0	1·0	0·7	5	83				
FALKIRK, .	16·8	6·4	3·6	7·8	6·8	0·7	0·7	0·7	1·1	2	37				
AYR, .	16·9	10·9	5·5	11·0	8·8	0·4	0·7	0·4	0·4	4	73				
TOTAL . (SIXTEEN TOWNS)	17·5	9·7	7·9	11·4	11·0	1·1	1·3	0·9	1·1	394	95				

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR SEPTEMBER 1917, and for the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL TOWNS.

Month.	Birth-Rate.	DEATHS FROM												* Infantile Mortality Rate. (Eight Towns only.)	Mean Temperature (Eight Towns only.)
		Illegitimate Birth-rate per 100 Births.	Marriage-Rate.	Death-Rate.	Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-Cough.	Diphtheria and Croup.	Diarrhoea (Under 2 Years).	(13)			
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
SEPT. 1917, .	17·5	9·7	7·9	11·0	1	0	13	7	61	22	108	95	55°·1		
SEPT. 1916, .	21·7	7·2	7·1	13·5	10	0	25	18	21	30	256	125	53°·8		
SEPT. 1915, .	22·1	7·0	9·4	13·6	11	0	50	52	17	43	193	120	54°·3		
SEPT. 1914, .	25·2	7·1	10·0	16·2	13	0	8	41	62	28	383	161	54°·1		
SEPT. 1913, .	24·7	6·6	9·5	16·0	12	0	51	22	27	36	321	153	54°·4		
SEPT. 1912, .	24·3	7·3	8·2	12·6	5	3	4	13	32	33	79	89	51°·3		
SEPT. 1911, .	23·7	7·6	8·6	15·9	8	0	13	12	40	37	265	162	54°·1		
SEPT. 1910, .	24·6	7·3	7·8	14·9	8	0	7	21	36	43	184	133	54°·5		
SEPT. 1909, .	25·5	7·9	7·9	14·2	11	0	11	25	24	34	100	104	51°·7		
SEPT. 1908, .	26·6	8·0	7·9	15·1	9	0	10	10	56	26	-	130	54°·2		
SEPT. 1907, .	25·6	7·1	8·6	14·4	9	0	14	4	67	12	-	107	54°·6		

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—September 1917.

DEATHS IN EACH TOWN (corrected for Transfers)—September 1917.

CAUSES OF DEATH.		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever		...	...	...	...	...	...	...	...
Typhus Fever		...	...	...	...	...	...	...	...
Small-pox		...	...	...	...	...	...	...	...
Measles		6	1	...	3	...	...	...	...
Scarlet Fever		4	...	...	2	...	...	...	...
Whooping-cough		35	7	1	8	3	...	2	1
Diphtheria and Croup		10	4	1	2	1	1	...	...
Influenza		...	...	1	...	...	...	1	...
Erysipelas		...	1	1	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis		80	23	16	14	5	7	4	2
Tuberculous Meningitis		20	5	3	3	...	2	...	...
Abdominal Tuberculosis		13	2	...	2	...	2	1	...
Other Tuberculous Diseases		13	2	3	3	2	1	...	...
Cancer, Malignant Disease		104	39	21	14	6	7	8	2
Rheumatic Fever		...	1	1	1	...	...	1	...
Meningitis		13	5	1	1	2	1	1	...
Organic Heart Disease		64	27	22	18	6	6	9	7
Bronchitis		41	17	3	6	3	2	1	1
Pneumonia (all forms)		69	14	8	4	4	2	3	4
Other Diseases of Respiratory Organs		12	2	2	1	...	...	1	...
Diarrhoea and Enteritis (under 2 years)		65	4	8	4	4	4	4	1
Appendicitis and Typhlitis		6	1	3	...	...	...	2	...
All Liver Diseases (not Malignant)		5	5	...	2	2	...	...	1
Other Diseases of Digestive System		38	13	5	4	10	4	4	2
Nephritis and Bright's Disease		53	5	9	3	3	3	3	...
Puerperal Sepsis		7	...	1	...	...	1	...	...
Other Diseases and Accidents of Pregnancy and Parturition		5	2	1	2	...	...	...	...
Congenital Debility and Malformation, including Premature Birth		81	15	16	8	6	2	8	2
Violent Deaths, excluding Suicide		43	11	6	9	3	5	4	1
Suicide		4	2	1	...	...	1	...	...
Other Defined Diseases		225	88	42	34	19	15	15	6
Diseases Ill-defined or Unknown		26	2	6	1	4	2	2	...
All Causes		1044	297	181	149	83	68	74	30
AGE AT DEATH.									
Under 1		219	35	33	25	16	8	15	4
1-4		120	14	8	16	8	6	5	3
5-9		24	11	9	5	1	3	3	...
10-14		21	3	6	6	2	2	2	...
15-24		46	11	11	8	2	...	5	2
25-34		53	10	7	5	4	3	3	...
35-44		81	19	10	12	7	11	8	1
45-54		111	35	25	11	8	9	10	2
55-64		154	46	27	20	14	11	8	8
65-74		130	59	20	20	19	8	8	5
75 and over		85	54	25	21	2	7	7	5
All Ages		1044	297	181	149	83	68	74	30

DEATHS IN EACH TOWN (corrected for Transfers)—September 1917—*continued.*

CAUSES OF DEATH.												
					Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.
Enteric Fever	...	...	...	...	...	...	...	...	...	1	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	...	...	...	...	2	...	1	...
Scarlet Fever	...	...	...	...	1	...	...	...	...	...	...	...
Whooping-cough	...	...	...	1	1	...	...	...	1	...	...	1
Diphtheria and Croup	...	...	...	1	1	1	...	...	...	...	...	...
Influenza	...	...	...	...	...	...	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	...	...	...	...	...
Phthisis, Pulmonary Tuberculosis	...	...	3	2	3	2	2	3	2	2	1	1
Tuberculous Meningitis	...	...	1	...	...	1	1	1	...	...	...	1
Abdominal Tuberculosis	...	...	2	...	1	...	1	...	...	...	...	...
Other Tuberculous Diseases	...	...	...	...	...	...	...	...	...	...	...	...
Cancer, Malignant Disease	...	...	4	5	3	2	3	1	2	2	4	...
Rheumatic Fever	...	...	1	...	...	1	...	...	...	...	...	...
Meningitis	...	...	...	4	1	2	4	2	2	2	4	1
Organic Heart Disease	...	...	3	...	2	1	2	2	2	2	1	...
Bronchitis	...	...	4	1	...	...	2	...	...	...	1	1
Pneumonia (all forms)	...	...	2	...	1	4	2	4	2	4	1	...
Other Diseases of Respiratory Organs	...	...	...	...	...	...	...	...	...	...	1	...
Diarrhoea and Enteritis (under 2 years)	...	2	...	1	4	2	4	2	4	1	...	...
Appendicitis and Typhlitis	...	...	1	...	...	...	...	...	...	...	...	...
All Liver Diseases (not Malignant)	...	...	...	...	...	1	1	1	...	...	...	...
Other Diseases of Digestive System	...	3	...	2	4	1	1	1	1	...	2	...
Nephritis and Bright's Disease	...	3	3	...	3	...	3	...	1	...	...	...
Puerperal Sepsis	...	2	...	...	...	...	...	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	...	...	1	...	...	...	...	...	...
Congenital Debility and Malformation, including Premature Birth	...	...	2	3	4	3	...	...	...	1	1	1
Violent Deaths, excluding Suicide	...	3	1	...	2	4	...	...	...	1	...	...
Suicide	...	...	...	...	...	...	...	...	...	...	...	...
Other Defined Diseases	...	11	6	10	8	7	14	3	1	3	11	...
Diseases Ill-defined or Unknown	...	2	...	...	...	...	...	...	...	5	1	1
All Causes		...	50	25	28	41	34	34	19	24		
AGE AT DEATH.												
Under 1	...	...	...	...	6	2	4	11	5	5	2	4
1-4	...	...	...	...	4	2	2	3	7	2	1	1
5-9	...	...	...	...	3	1	2	3	3	1	1	...
10-14	...	...	...	...	...	1	...	1	...	...	1	1
15-24	...	...	...	...	2	1	...	2	1	1	...	1
25-34	...	...	...	...	3	1	3	1	3	3	3	...
35-44	...	...	...	...	6	3	1	2	5	2	1	3
45-54	...	...	...	...	3	5	3	1	1	1	3	...
55-64	...	...	...	...	9	4	2	6	5	6	2	4
65-74	...	...	...	...	9	2	7	4	2	8	4	5
75 and over	...	...	...	...	5	3	4	7	2	5	1	5
All Ages		...	50	25	28	41	34	34	19	24		

Abstract of Meteorological Observations.

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,
During the Month of SEPTEMBER 1917.

OBSERVERS.	BARO-METER.		AIR TEMPERATURE.				HYGROMETER.				RAIN, AND OTHER FORMS OF PRECIPITATION.						WIND DIRECTIONS.										
					Mean of A and B (Mean Temperature).		Mean at 9 A.M. and 9 P.M.																				
	Mean at Sea-Level and 32°.		Mean at Station and 32°.		Difference from Average		Maximum		Day of Month.		Minimum.		Day of Month.		Depression of Wet Bulb.		Vapour Pressure.		Humidity.		Number of Days.		Difference from Average.				
	feet.	inch.	feet.	inch.	°	°	°	°	°	°	°	°	°	°	inch.	per cent.	inch.	inch.	per cent.	inch.	inch.	inch.	inch.	inch.	Number of Observations at 9 A.M. and 9 P.M.		
GLASGOW, JAMES CONNELL, The Observatory.	184	29.689	29.889	59.8	50°5	55.2	+1.7	67	57h	43	107h	54°8	2.6	·349	82	21	2°04	-0.94	1	3	0	0	6	23	26	1	0
EDINBURGH, Professor R. A. SAMPSON, F.R.S., Royal Observatory.	441	29.384	29.861	60.5	49.2	54.9	+1.6	66	4, 7	44	107h	54°2	2.9	·340	81	11	1°01	-0.82	1	0	3	1	10	24	13	3	5
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	164	29.667	29.845	62.7	47.5	53.1	+1.6	69	4, 7	41	187h	63.0	1.7	·355	88	15	1°43	-0.65	0	1	1	4	0	41	0	13	0
ABERDEEN,* The Meteorological Office.	90	29.706	29.806	62.2	46.9	54.6	+1.6	69	4, 25	39	187h	64°3	2.3	·344	81	13	1°74	-0.48	1	0	2	2	16	16	14	5	4
PAISLEY, The Coats Observatory.	107	29.776	29.893	62.0	49.8	55.9	+1.0	70	57h	41	107h	55°2	2.4	·368	85	21	2°41	-0.60	3	0	3	0	6	12	25	4	7
LEITH,† JAMES BOLAM, Navigation School.	76	29.785	29.868	60.8	50.0	55.4	+0.7	68	257h	42	187h	56°2	3.2	·362	80	18	1°00	-0.97	0	2	4	2	2	24	24	2	0
GREENOCK, DANIEL MACALISTER, C.E., Greenock Waterworks.	233	29.622	29.882	59.3	50.5	54.9	+1.1	68	57h	43	107h	55.0	2.6	·359	83	29	4°82	+0.07	0	3	2	2	0	17	27	9	0
PERTH, HENRY COATES, F.R.S.E.,	62	29.775	29.843	62.6	46.4	54.5	+1.2	71	77h	35	107h	54.2	2.0	·364	86	18	1°11	-1.12	0	4	0	1	1	43	7	4	0
Means	170	29.676	29.861	61.2	48.9	55.1	+1.3	54.5	2.5	·355	83	18	1°94	-0.69	1	2	2	1	5	25	17	5	2

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* North Latitude.—Glasgow, 55° 51'; Edinburgh, 55° 55'; Dundee, 56° 28'; Aberdeen, 56° 51'; Paisley, 56° 59'; Greenock, 56° 57'; Perth, 56° 23'; Mean, 56° 11'.
West Longitude.—Glasgow, 4° 13'; Edinburgh, 3° 11'; Dundee, 2° 57'; Aberdeen, 4° 27'; Paisley, 4° 27'; Greenock, 4° 46'; Perth, 3° 32'; Mean, 3° 32'.

† At 9 A.M. only.
‡ At 9 A.M. only.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

OCTOBER 1917.

Published by Authority of the Registrar-General.

REPORT.

During the month of October 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the date of the 1911 Census had populations of over 30,000, the births of 3999 living children, of whom 2089 were male and 1910 female. The male children are 322 more than in the previous month, but 308 fewer than in October of last year. The female children are 220 more than in the previous month, but 297 fewer than in October of last year. The total children are 542 more than in the previous month, and 195 more than the mean of the three preceding months, but are 605 fewer than in October of last year. The equivalent annual birth-rate is 19·6 per thousand, being 2·1 more than in the previous month, and 0·8 more than the mean of the rates for the three preceding months, but 3·3 less than that for October of last year. In the individual towns the birth-rate ranged from 29·5 in Coatbridge, 26·0 in Motherwell, and 23·5 in Clydebank, to 13·5 in Kirkcaldy, 14·0 in Perth, and 15·3 in Dundee. In Greenock it was 23·4; in Leith, 22·2; in Hamilton, 21·9; in Glasgow, 21·1; in Kilmarnock, 20·0; in Aberdeen, 18·3; in Paisley, 16·8; in Ayr, 16·7; in Falkirk, 16·6; and in Edinburgh, 15·6.

Of the 3999 children whose births were registered, 3654, or 91·4 per cent., were legitimate, and 345, or 8·6 per cent., were illegitimate. The illegitimate births are 8 more than in the previous month, and 8 more than the mean of the numbers for the three preceding months, but are 40 fewer than in October of last year. The illegitimate rate is 1·1 less than in the previous month, 0·3 less than the mean of the rates for the three preceding months, but is 0·2 above the corresponding rate for October of last year. In the towns taken individually this rate ranged from 14·5 in Edinburgh, 12·0 in Aberdeen, and 10·9 in Dundee, to 1·1 in Clydebank, and 3·2 in Motherwell and in Kilmarnock. In Ayr it was 10·6; in Perth, 9·5; in Glasgow, 8·4; in Hamilton, 8·3; in Kirkcaldy, 6·4; in Leith, 5·8; in Coatbridge, 5·4; in Greenock, 5·1; in Paisley, 4·7; and in Falkirk, 4·2.

Marriages registered in these towns numbered 1540. They are 29 fewer than in the previous month, and 136 fewer than the mean of the numbers for the three preceding months, but are 126 more than in October of last year. The equivalent annual marriage-rate is 7·5 per thousand, being 0·4 below that for the previous month, 0·8 below the mean of the rates for the three preceding months, but 0·5 above that for October of last year. In the individual towns this rate ranged from 9·9 in

Edinburgh, 8·6 in Aberdeen, and 8·3 in Glasgow, to 3·6 in Motherwell, 3·8 in Clydebank, and 4·3 in Coatbridge. In Greenock it was 6·1; in Leith and in Perth, 6·0; in Falkirk, 5·9; in Kirkcaldy and in Hamilton, 5·8; in Kilmarnock and in Ayr, 5·7; in Paisley, 5·4; and in Dundee, 5·2.

Deaths registered in these towns numbered 2505, of which 1294 were of males and 1211 of females. These deaths include those of 244 persons with usual residence outwith the town of registration, but they do not include those of 175 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 69, falls to be deducted to get the corrected number for the month, which is thus found to be 2436. This number is 255 more than in the previous month, and 86 more than the mean of the numbers for the three preceding months, but is 304 fewer than in October of last year.

The death-rate for the month, corrected, is 11·9 per thousand, being 0·9 above that for the previous month, and 0·3 above the mean of the rates for the three preceding months, but 1·7 below that for October of last year. In the towns taken individually this rate ranged from 14·6 in Aberdeen, 14·2 in Greenock, and 13·8 in Coatbridge, to 7·1 in Ayr, 7·9 in Falkirk, and 9·1 in Clydebank. In Perth it was 13·7; in Edinburgh, 13·5; in Kirkcaldy, 12·7; in Motherwell, 11·8; in Glasgow, 11·7; in Dundee, 11·5; in Leith, 10·2; in Hamilton, 10·1; in Kilmarnock, 9·5; and in Paisley, 9·3.

Deaths of children of less than one year old numbered 419. They are 25 more than in the previous month, and 31 more than the mean of the numbers for the three preceding months, but are 114 fewer than in October of last year. They are equal to an infantile mortality rate of 99 per thousand of the average number of births registered monthly in these towns during the preceding twelve months. This rate is 4 more than in the previous month, and 9 more than the mean of the rates for the three preceding months, but is 14 less than the rate for October of last year. In the towns taken individually this rate ranged from 164 in Kilmarnock, 142 in Aberdeen, and 129 in Edinburgh, to 46 in Paisley, 50 in Clydebank, and 56 in Falkirk. In Perth it was 114; in Coatbridge, 110; in Ayr, 103; in Greenock and in Motherwell, 98; in Leith, 96; in Glasgow, 95; in Dundee, 91; in Hamilton, 71; and in Kirkcaldy, 69.

Deaths from the principal epidemic diseases numbered 228, and included 6 from enteric fever, 31 from measles, 11 from scarlet fever, 52 from whooping-cough, 38 from diphtheria, and 90 from the diarrhoeas of childhood. These deaths collectively are 16 more than in the previous month, but are 44 fewer than the mean of the numbers for the three preceding months, and 62 fewer than in October of last year. Compared with the numbers for the previous month, deaths from measles are 18 more, from diphtheria 16 more, from enteric fever 5 more, and from scarlet fever 4 more, but those from whooping-cough are 9 fewer, and from the diarrhoeas of childhood 18 fewer. The monthly death-rate from these causes was 1·1 per thousand, being the same as that for the previous month, 0·2 below the mean of the rates for the three preceding months, and 0·3 below that for October of last year. This rate ranged from 2·0 in Clydebank, 1·9 in Coatbridge, and 1·8 in Greenock, to 0·3 in Perth and in Kirkcaldy, and 0·4 in Paisley and in Leith.

Deaths from pneumonia numbered 158, being 41 more than in the previous month. Deaths from bronchitis numbered 143, being 58 more than in the previous month.

Deaths from all forms of tuberculosis numbered 244, of which 177 were ascribed to phthisis. The former are 10 fewer than in the previous month, and 55 fewer than in October of last year. The latter are 8 more than in the previous month, but 27 fewer than in October of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
Meteorological Society.

OCTOBER 1917.

Mean barometric pressure, 29·540 in.; less than the average of 1881-1915 by 0·308 in.

Mean temperature, 43°·9; less by 3°·6.

Mean daily range of temperature, 11°·1; less by 0°·6.

Rain, number of days, 24; greater by 6 days.

Rain, depth in inches, 4·92; greater by 1·62 in.

Wind, direction of: a 7 days' excess of winds from between S. and W.

Hence the month was characterised by an abnormally low mean pressure; an abnormally low mean temperature, with a slightly low mean daily range; an abnormally high mean rainfall; and a large excess of south-westerly winds.

Atmospheric conditions were almost continuously of an extremely unsettled type; some of the depressions affecting our area were unusually deep; and on 24th the barometer fell about 1 in. in nearly all districts,—rather more in Orkney,—with a recovery of a $\frac{1}{2}$ in. or more on 25th. The mean pressure for the month was 29·540 in., or 0·308 in. below the normal, and during the last sixty years a lower mean for October has occurred only in 1903 (29·455 in.). At Leith, at sea-level, pressure reached 30 in. only on 1st, 19th, and 20th, the extremes there being 30·12 in. on evening of 19th, and 28·51 in. on evening of 24th.

Fairly high temperatures occurred during the first two or three days,—as high as 67° at Gordon Castle on 2nd,—but thereafter continuously cold weather was experienced, and during the last sixty years the month of October has been a colder month only in 1896. The most acute cold occurred with shifts of the wind to north and north-west; on night of 6th the thermometer in screen at Eskdalemuir fell to 21°; and lowest readings for the month were recorded generally on 29th,—as low as 16° at Braemar (with 11° on an exposed thermometer), and 18° at Balmoral and West Linton. On 26th and 27th the days were especially cold. For the chief towns the mean was 43°·9, or 3°·6 below the normal; the days were 3°·9 and the nights 3°·3 below their respective averages; and the extremes were 65° at Edinburgh on 2nd and 22° at Perth on 7th.

In most eastern districts the aggregate rainfall differed little from the normal; at some points there was a slight deficiency; and there were a good many days with no rain or only moderate falls. Elsewhere the month was an extremely wet one, with more than twice the normal in some western and south-western districts. At Rothesay (10·50 in.) the month appears to have been the wettest October for at least 100 years; at Greenock it was the wettest since 1874; and in Shetland the wettest on record. Glen Etive and Glenquoich had fully 19 in., and Gruline (Mull) and Roshven about 16 in. There were numerous considerable rainstorms, affecting more or less extended areas, and especially between 20th and 30th. On 20th Gruline (Mull) had 3·27 in.; and amounts exceeding 2 in. were recorded at Glenquoich on 22nd and 24th, and at Ardtornish and Gruline on 29th. The most general rain-storm occurred on 24th. The mean for the chief towns was 4·92 in., or 49 per cent. above the normal.

Wind force was as a rule high; on 24th and 25th a severe gale from between south-west and north-west was general; and on 29th and 30th the weather was again very stormy. The gale of 24th and 25th caused structural damage at places, and in various districts many trees were uprooted.

Wintery weather was experienced from 5th to 7th, with snow and hail in several districts; early on 26th a considerable snowstorm was general, with further falls in some districts on 27th and 28th.

Thunderstorms occurred at one or two points towards south-west on 23rd and 24th, and somewhat widely on evening of 25th.

Sunshine amounts were above the normal in the east; but below it elsewhere.

Aurora was observed at various points on 13th, and at Aberdeen on 28th.

NOTE.—For meteorological table see p. 80.

*Abstract.*TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, OCTOBER 1917.

TOWNS.	POPULATION.		BIRTHS.					DEATHS.						
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	MARRIAGES.	Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW, . .	1,008,487	1,115,800	1031	972	2003	1834	169	784	609	561	1170	104	44	1110
EDINBURGH, . .	320,769	331,800	223	218	441	377	64	278	190	207	397	64	47	380
DUNDEE, . .	176,085	184,300	126	113	239	213	26	81	112	78	190	16	6	180
ABERDEEN, . .	163,891	165,700	136	122	258	227	31	121	109	105	214	19	11	206
PAISLEY, . .	84,455	89,700	66	62	128	122	6	41	35	37	72	4	3	71
LEITH, . .	80,601	82,800	92	64	156	147	9	42	32	26	58	3	17	72
GREENOCK, . .	75,140	79,600	93	65	158	150	8	41	53	43	96	5	5	96
PERTH, . .	35,854	35,400	20	22	42	38	4	18	29	19	48	8	1	41
TOTAL . . (EIGHT TOWNS)	1,945,282	2,085,100	1787	1638	3425	3108	317	1406	1169	1076	2245	223	134	2156
COATBRIDGE, . .	43,290	44,300	52	59	111	105	6	16	28	22	50	0	2	52
MOTHERWELL . .	40,380	42,000	52	41	93	90	3	13	18	20	38	0	4	42
KIRKCALDY . .	39,601	40,900	22	25	47	44	3	20	9	27	36	0	8	44
HAMILTON, . .	38,644	38,600	36	36	72	66	6	19	16	9	25	2	10	33
CLYDEBANK, . .	37,548	46,700	52	41	93	92	1	15	12	14	26	1	11	36
KILMARNOCK, . .	34,728	37,000	32	31	63	61	2	18	12	21	33	6	3	30
FALKIRK, . .	33,574	34,100	31	17	48	46	2	17	13	11	24	2	1	23
AYR, . .	32,986	33,100	25	22	47	42	5	16	17	11	28	10	2	20
TOTAL . . (SIXTEEN TOWNS)	2,246,033	2,401,800	2089	1910	3999	3654	345	1540	1294	1211	2505	244	175	2436

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, OCTOBER 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 of POPULATION FROM						DEATHS UNDER ONE YEAR OF AGE.	
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.	Number.	* Rate per 1000 Births.
				Uncor- rected.	Cor- rected.						
GLASGOW, . .	21·1	8·4	8·3	12·3	11·7	1·3	1·3	1·0	1·6	202	95
EDINBURGH, . .	15·6	14·5	9·9	14·1	13·5	0·9	1·2	0·9	1·9	59	129
DUNDEE, . .	15·3	10·9	5·2	12·1	11·5	0·6	1·3	0·8	1·3	24	91
ABERDEEN, . .	18·3	12·0	8·6	15·2	14·6	1·3	1·6	1·1	1·7	37	142
PAISLEY, . .	16·8	4·7	5·4	9·5	9·3	0·4	0·4	0·4	2·5	7	46
LEITH, . .	22·2	5·8	6·0	8·2	10·2	0·4	0·7	0·4	1·4	13	96
GREENOCK, . .	23·4	5·1	6·1	14·2	14·2	1·8	1·2	0·7	1·3	18	98
PERTH, . .	14·0	9·5	6·0	16·0	13·7	0·3	0·0	0·0	2·3	5	114
TOTAL . . (EIGHT TOWNS)	19·3	9·3	7·9	12·7	12·2	1·1	1·2	0·9	1·7	365	101
COATBRIDGE, . .	29·5	5·4	4·3	13·3	13·8	1·9	1·9	1·6	1·9	11	110
MOTHERWELL, . .	26·0	3·2	3·6	10·6	11·8	1·7	0·6	0·6	2·8	9	98
KIRKCALDY, . .	13·5	6·4	5·8	10·4	12·7	0·3	0·0	0·0	1·2	4	69
HAMILTON, . .	21·9	8·3	5·8	7·6	10·1	1·5	1·2	0·6	0·9	6	71
CLYDEBANK, . .	23·5	1·1	3·8	6·6	9·1	2·0	1·5	1·3	0·5	5	50
KILMARNOCK, . .	20·0	3·2	5·7	10·5	9·5	1·3	0·6	0·0	1·0	10	164
FALKIRK, . .	16·6	4·2	5·9	8·3	7·9	1·7	1·7	1·4	0·7	3	56
AYR, . .	16·7	10·6	5·7	9·9	7·1	0·7	0·4	0·0	1·1	6	103
TOTAL . . (SIXTEEN TOWNS)	19·6	8·6	7·5	12·3	11·9	1·1	1·2	0·9	1·6	419	99

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR OCTOBER 1917, AND FOR THE CORRESPONDING MONTH OF THE PRECEDING TEN YEARS, IN THE PRINCIPAL TOWNS.

Month.	Birth-Rate.	Illegitimate Birth-rate per 100 Births.	Marriage-Rate.	Death-Rate.	DEATHS FROM									*Infantile Mortality Rate.	Mean Temperature (Eight Towns only.)
					Enteric Fever.	Smallpox.	Measles.	Scarlet Fever.	Whooping-Cough.	Diphtheria and Croup.	Diarrhoea (Under 2 Years).	(13)	(14)		
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)	(14)		
OCT. 1917,	19.6	8.6	7.5	11.9	6	0	31	11	52	38	90	99	43°.9		
OCT. 1916,	22.9	8.4	7.0	13.6	14	0	49	26	13	33	155	113	47°.9		
OCT. 1915,	21.9	6.5	8.1	15.3	10	0	67	74	12	47	172	140	46°.9		
OCT. 1914,	26.8	7.1	6.9	14.9	22	0	7	63	45	75	171	123	49°.3		
OCT. 1913,	26.5	6.9	7.2	14.4	14	0	63	47	17	53	151	117	50°.3		
OCT. 1912,	27.2	6.3	7.3	14.6	5	5	3	21	38	48	79	110	46°.6		
OCT. 1911,	24.6	8.2	7.7	16.2	5	0	36	32	21	41	109	132	46°.0		
OCT. 1910,	25.0	7.6	7.3	14.5	9	0	5	21	29	57	104	115	50°.1		
OCT. 1909,	25.2	6.9	6.2	13.4	8	0	25	24	13	41	68	97	48°.1		
OCT. 1908,	27.4	7.3	6.4	15.0	6	0	6	16	58	36	-	123	53°.1		
OCT. 1907,	29.3	7.0	8.0	15.7	10	0	60	9	60	23	-	113	47°.9		

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—October 1917.

CAUSES OF DEATH.	All Ages.	Age.												
		-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-		
Enteric Fever	6	—	—	—	—	—	—	—	—	—	—	—	1	1
Typhus Fever	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Small-pox	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Measles	31	3	28	—	—	—	—	—	—	—	—	—	—	—
Scarlet Fever	11	6	—	—	—	—	—	—	—	—	—	—	—	—
Whooping-cough	52	25	26	1	—	—	—	—	—	—	—	—	—	—
Diphtheria and Croup	38	2	20	18	2	—	—	—	—	—	—	—	—	—
Influenza	4	—	—	—	—	—	—	—	—	—	—	—	1	2
Erysipelas	6	2	—	—	—	—	—	—	—	—	—	—	1	1
Phthisis, Pulmonary Tuberculosis	177	1	4	4	4	4	35	42	43	24	17	3	2	2
Tuberculous Meningitis	15	4	8	2	—	—	—	1	—	—	—	—	—	1
Abdominal Tuberculosis	18	—	6	2	3	3	3	1	1	1	1	—	—	1
Other Tuberculous Diseases	84	2	5	5	5	3	7	3	4	5	69	61	32	32
Cancer, Malignant Disease	240	—	—	1	1	—	2	6	17	52	—	—	—	—
Rheumatic Fever	5	—	—	—	—	—	1	1	1	1	—	—	—	1
Meningitis	19	9	5	2	2	2	1	1	—	—	—	—	—	—
Organic Heart Disease	234	—	—	2	2	2	4	11	19	36	45	71	44	44
Bronchitis	142	23	11	3	2	2	2	2	1	1	12	29	30	30
Pneumonia (all forms)	158	37	47	2	2	2	4	7	10	12	13	9	15	6
Other Diseases of Respiratory Organs	33	5	5	—	1	1	1	—	2	3	4	6	6	6
Diarrhoea and Enteritis (under 2 years)	90	69	21	—	—	—	—	—	—	—	—	—	—	—
Appendicitis and Typhlitis	14	1	2	2	3	3	1	1	1	1	2	1	1	1
All Liver Diseases (not Malignant)	24	1	—	—	—	—	1	4	4	4	5	5	4	4
Other Diseases of Digestive System	106	16	11	3	3	2	6	7	19	19	15	14	10	10
Nephritis and Bright's Disease	94	2	1	3	1	1	5	13	9	9	14	24	13	13
Puerperal Sepsis	13	—	—	—	—	—	3	5	5	5	—	—	—	—
Other Diseases & Accidents of Pregnancy & Parturition	11	—	—	—	—	—	2	7	2	—	—	—	—	—
Congenital Debility and Malformation, including Pre-mature Birth	166	162	4	—	—	—	—	—	—	—	—	—	—	—
Violent Deaths, excluding Suicide	75	8	9	1	2	5	6	10	15	8	6	5	5	5
Suicide	7	—	—	—	—	1	1	1	1	2	1	1	1	1
Other Defined Diseases	560	41	18	5	7	14	18	36	64	80	131	146	146	146
Diseases Ill-defined or Unknown	52	6	2	3	—	—	2	5	6	10	12	6	6	6
All Causes	2436	419	240	56	36	99	136	178	266	316	377	313		

DEATHS IN EACH TOWN (corrected for Transfers)—October 1917.

		CAUSES OF DEATH.		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever	3	1	...	...	...	...	...	...
Typhus Fever
Small-pox	14	1	...	2	...	...	2	...
Measles	5	1	...	5	...	...	1	...
Scarlet Fever	34	4	3	...	1	1	5	...
Whooping-cough	23	8	...	1	...	...	...	1
Diphtheria and Croup	1	...	...	...	...	...	...	...
Influenza	2	2	1	1	...	...	1	...
Erysipelas	95	24	12	16	3	3	5	...
Phthisis, Pulmonary Tuberculosis	10	3	1	1	...	...	...	...
Tuberculous Meningitis	6	1	1	1	...	1	2	...
Abdominal Tuberculosis	13	6	7	4	...	1	1	...
Other Tuberculous Diseases	113	42	21	15	3	9	8	7
Cancer, Malignant Disease	1	1	1	1	1	...	...	...
Rheumatic Fever	10	...	1	3	1	...	...	...
Meningitis	84	50	18	28	5	10	11	6
Organic Heart Disease	68	21	8	7	11	2	8	3
Bronchitis	75	26	9	16	7	5	1	3
Pneumonia (all forms)	13	7	4	1	1	3	...	1
Other Diseases of Respiratory Organs	40	11	5	11	2	2	4	...
Diarrhoea and Enteritis (under 2 years)	8	1	1	...	...	1	...	1
Appendicitis and Typhlitis	7	5	2	2	3	1	1	...
All Liver Diseases (not Malignant)	45	10	12	10	4	2	6	1
Other Diseases of Digestive System	46	15	7	13	...	3	1	1
Nephritis and Bright's Disease	8	2	...	...	...	...	...	...
Puerperal Sepsis	3	4	1	2	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	83	19	12	9	3	6	6	3
Congenital Debility and Malformation, including Premature Birth	36	10	6	2	2	7	3	...
Violent Deaths, excluding Suicide	2	1	3	...	...	...	...	...
Suicide	227	103	39	53	24	14	27	14
Other Defined Diseases	35	2	4	2	...	1	3	...
Diseases Ill-defined or Unknown	1110	380	180	206	71	72	96	41
All Causes	1110	380	180	206	71	72	96	41
AGE AT DEATH.											
Under 1	202	59	24	37	7	13	18	5
1- 4	127	20	13	16	7	6	10	2
5- 9	28	10	5	3	3	...	1	1
10-14	18	5	...	2	4	1	...	1
15-24	40	10	9	14	4	1	5	...
25-34	63	22	8	13	4	10	4	2
35-44	80	29	10	16	7	4	7	1
45-54	144	26	20	11	8	11	8	3
55-64	135	51	41	29	5	9	11	8
65-74	164	76	32	28	10	8	18	7
75 and over	109	72	18	37	12	9	14	11
All Ages	1110	380	180	206	71	72	96	41

DEATHS IN EACH TOWN (corrected for Transfers)—October 1917—continued.

CAUSES OF DEATH.								Ayr.		
				Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.
Enteric Fever	...	...	...	2	...	...	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	4	1	...	...	2	...	5
Measles	...	...	...	3	...	...	1	3	...	...
Scarlet Fever	...	...	...	1	...	...	...	...	...	...
Whooping-cough	...	...	...	...	1	...	...	3	...	...
Diphtheria and Croup	...	...	...	...	1	...	...	...	...	...
Influenza	...	...	...	...	1	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	5	...	...
Phthisis, Pulmonary Tuberculosis	...	...	6	2	...	...	...	...	...	4
Tuberculous Meningitis	...	...	...	1	...	...	...	1	2	1
Abdominal Tuberculosis	...	...	...	1	...	...	...	1	...	1
Other Tuberculous Diseases	...	...	...	...	...	2	...	...	...	...
Cancer, Malignant Disease	...	...	3	...	2	2	5	5	2	3
Rheumatic Fever	...	...	...	...	...	...	...	...	...	...
Meningitis	...	...	2	1	...	...	...	5	1	...
Organic Heart Disease	...	...	1	2	7	2	...	...	1	3
Bronchitis	...	...	5	4	1	1	...	...	1	1
Pneumonia (all forms)	...	...	2	5	3	1	2	1	1	1
Other Diseases of Respiratory Organs	...	...	...	1	...	1	...	1	...	...
Diarrhoea and Enteritis (under 2 years)	...	...	...	2	...	4	3	4	...	2
Appendicitis and Typhlitis	...	...	...	1	1	1	...	...	...	...
All Liver Diseases (not Malignant)	...	...	1	1	1	...	...	...	...	...
Other Diseases of Digestive System	...	...	3	3	3	3	1	2	1	1
Nephritis and Bright's Disease	...	...	4	2	...	...	...	...	1	...
Puerperal Sepsis	...	...	...	1	1	1	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	...	...	...	1	...	...	...
Congenital Debility and Malformation, including Premature Birth	...	...	4	4	3	4	...	4	2	4
Violent Deaths, excluding Suicide	...	...	5	1	1	1	1	...	...	...
Suicide	...	...	...	...	...	1	...	...	...	...
Other Defined Diseases	...	...	8	7	19	6	6	5	3	5
Diseases Ill-defined or Unknown	...	...	...	1	1	...	1	2	...	...
All Causes		...	52	42	44	33	36	30	23	20
AGE AT DEATH.										
Under 1	...	...	...	11	9	4	6	5	10	3
1-4	...	...	...	8	4	2	7	10	2	6
5-9	...	...	...	1	1	1	1	...	...	1
10-14	...	...	...	1	1	...	1	...	1	...
15-24	...	...	...	5	2	...	2	3	1	3
25-34	...	...	...	1	5	1	1	1	...	1
35-44	...	...	...	5	3	4	3	5	3	...
45-54	...	...	...	10	5	7	3	4	3	3
55-64	...	...	...	2	2	10	1	5	6	1
65-74	...	...	...	6	7	6	4	2	2	3
75 and over	...	...	...	2	3	9	4	1	2	3
All Ages		...	52	42	44	33	36	30	23	20

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,

During the Month of OCTOBER 1917.

OBSERVERS.	BARO-METER.	AIR TEMPERATURE.				HYGROMETER.		RAIN, AND OTHER FORMS OF PRECIPITATION.				WIND DIRECTIONS.																	
		Mean of		Absolute Maximum and Minimum.		Mean at 9 A.M. and 9 P.M.		Number of Days.		Total Fall.		Difference from Average.		Number of Observations at 9 A.M. and 9 P.M.															
		Mean at Station and 32°.		Day of Month.		Depression of Wet Bulb.		Humidity.		Dry Bulb.		Vapour Pressure.		N		NE		E		SE		S		SW		W		NW	
		feet.	inch.	°	°	°	°	°	°	°	°	inch.	per cent.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.	inch.		
GLASGOW, JAMES CONNELL, The Observatory.	29.348	29.553	48.6	39.3	41.0	-3.4	59	1, 2	30	29.7	43.2	2.0	.236	.26	.554	+2.14	4	1	1	1	8	13	23	11	0				
EDINBURGH, Professor R. A. SAMPSON, F.R.S., Royal Observatory.	29.055	29.534	49.0	38.8	43.9	-3.5	65	2nd	32	26, 27	43.0	2.5	.225	.81	.20	.262	+0.04	5	0	0	3	7	20	18	6	3			
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	29.333	29.516	49.2	37.0	43.1	-3.6	61	2nd	27	29.7	41.7	1.4	.235	.89	.21	.243	-0.23	0	3	0	2	0	41	0	16	0			
ABERDEEN,* The Meteorological Office.	29.376	29.478	49.7	37.9	43.8	-3.5	61	2nd	28	29.7	43.0	1.7	.240	.86	.25	.366	+0.66	1	0	0	3	15	14	12	16	1			
PAISLEY, The Coats Observatory.	29.448	29.568	50.5	38.7	44.6	-3.8	63	1st	29	29.7	44.2	2.1	.244	.84	.27	.783	+4.09	6	1	1	1	4	17	14	4	0			
LEITH,† JAMES BOLAM, Navigation School.	29.479	29.564	49.1	39.5	44.3	-4.2	63	1, 2	31	29.7	44.6	2.5	.239	.81	.23	.243	-0.26	2	0	0	0	0	6	24	28	2			
GREENOCK,‡ DANIEL MACALISTER, C.E., Greenock Waterworks.	29.314	29.581	48.5	39.3	43.9	-3.6	59	1st	32	11, 27, 29	44.0	2.3	.233	.82	.26	.11.97	+6.59	0	3	2	4	0	12	26	15	0			
PERTH, HENRY COATES, F.R.S.E.,	29.456	29.526	50.4	35.9	43.2	-3.2	60	2nd	22	7	43.0	2.2	.230	.83	.24	.287	-0.08	9	0	0	3	12	24	6	2	6			
Means	170	29.351	29.540	49.4	38.3	43.9	-3.6	..	..	..	43.3	2.1	.236	.84	.24	.492	+1.82	3	1	1	2	7	20	16	10	2

North Latitude.—Glasgow, 56° 51'; Edinburgh, 56° 28'; Aberdeen, 55° 55'; Dundee, 56° 28'; Paisley, 57° 8'; Dundee, 8° 11'; Edinburgh, 8° 11'; Dundee, 2° 57'; Aberdeen, 2° 7'; Paisley, 4° 27'; Leith, 3° 8'; Greenock, 4° 46'; Perth, 3° 25'; Greenock, 3° 32'; Mean, 3° 32'.

* At King's College, at 7 A.M. and 6 P.M.
† At 8 A.M. on v.
‡ At 8 A.M. on v.

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MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

NOVEMBER 1917.

Published by Authority of the Registrar-General.

REPORT.

During the month of November 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the date of the 1911 Census had populations of over 30,000, the births of 3587 living children, of whom 1867 were male and 1720 were female. The male children are 222 fewer than in the previous month, and 253 fewer than in November of last year. The female children are 190 fewer than in the previous month, and 274 fewer than in November of last year. The total children are 412 fewer than in the previous month, 166 fewer than the mean of the three preceding months, and 527 fewer than in November of last year. The equivalent annual birth-rate is 18·2 per thousand, being 1·4 less than in the previous month, 0·4 less than the mean of the three preceding months, and 3·0 less than in November of last year. In the individual towns the birth-rate ranged from 30·7 in Motherwell, 27·2 in Coatbridge, and 24·6 in Hamilton, to 12·3 in Dundee, 14·1 in Kilmarnock, and 14·2 in Edinburgh. In Greenock it was 22·8; in Clydebank, 19·6; in Glasgow, 19·4; in Kirkcaldy, 19·0; in Leith, 17·9; in Paisley, 17·8; in Aberdeen, 17·3; in Perth, 16·2; in Ayr, 16·2; and in Falkirk, 16·1.

Of the 3587 children whose births were registered, 3259, or 90·9 per cent., were legitimate, while 328, or 9·1 per cent., were illegitimate. The illegitimate births are 17 fewer than in the previous month, 12 fewer than the mean of the three preceding months, but 27 more than in November of last year. The illegitimate rate is 0·5 more than in the previous month, the same as the mean of the three preceding months, and 1·8 more than in November of last year. In the towns taken individually this rate ranged from 16·9 in Aberdeen, 15·8 in Edinburgh, and 14·9 in Perth, to 0 in Clydebank, 1·9 in Motherwell, and 5·1 in Hamilton. In Dundee it was 12·4; in Ayr, 11·4; in Kilmarnock, 9·3; in Falkirk, 8·9; in Glasgow, 8·0; in Kirkcaldy, 7·8; in Leith, 7·4; in Coatbridge, 7·1; in Greenock, 5·4; and in Paisley, 5·3.

Marriages registered in these towns numbered 1284. They are 256 fewer than in the previous month, 226 fewer than the mean of the three preceding months, but 27 more than in November of last year. The equivalent annual marriage-rate is 6·5 per thousand, being 1·0 below that for the previous month, 1·0 below the mean of the rates for the three preceding months, but the same as in November of last year. In the individual towns this rate ranged from 8·1 in Edinburgh, 7·3 in

Leith and in Ayr, and 7·0 in Aberdeen, to 2·6 in Motherwell, 3·2 in Falkirk, and 3·6 in Coatbridge. In Glasgow it was 6·7; in Paisley, 6·1; in Dundee, 5·9; in Greenock, 5·8; in Kilmarnock, 5·6; in Perth, 5·5; in Kirkcaldy, 5·1; in Hamilton, 4·4; and in Clydebank, 3·9.

Deaths registered in these towns numbered 2471, of which 1258 were of males, and 1213 of females. These deaths include those of 222 persons with usual residence outwith the town of registration, but they exclude those of 141 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 81, falls to be deducted to get the corrected number of deaths for the month, which is thus found to be 2390. This number is 46 less than in the previous month, 95 more than the mean of those of the three preceding months, and 412 less than in November of last year.

The death-rate for the month, corrected, is 12·1 per thousand, being 0·2 more than in the previous month, 0·8 more than the mean of the three preceding months, but 2·3 less than in November of last year. In the towns taken individually this rate ranged from 16·1 in Falkirk, 15·9 in Coatbridge, and 13·7 in Kirkcaldy, to 7·6 in Perth, 9·8 in Motherwell, and 10·2 in Clydebank. In Ayr it was 13·6; in Aberdeen, 12·9; in Greenock, 12·7; in Hamilton, 12·6; in Dundee, 12·3; in Glasgow, 12·1; in Edinburgh, 12·0; in Paisley and in Leith, 10·9; and in Kilmarnock, 10·8.

Deaths of children of less than one year old numbered 420. They are 1 more than in the previous month, 14 more than the mean of the three preceding months, but 70 fewer than in November of last year. They are equal to an infantile mortality rate of 103 per thousand of the average number of births registered monthly in these towns during the preceding twelve months. This rate is 4 more than in the previous month, 7 more than the mean of the three preceding months, but 4 less than in the corresponding month of last year. In the towns taken individually this rate ranged from 124 in Leith, 118 in Falkirk, and 115 in Coatbridge, to 36 in Kirkcaldy, 47 in Perth, and 69 in Ayr. In Glasgow it was 109; in Aberdeen and in Paisley, 108; in Edinburgh, 107; in Motherwell, 100; in Dundee, 98; in Hamilton, 86; in Greenock, 80; in Clydebank, 73; and 71 in Kilmarnock.

Deaths from the principal epidemic diseases numbered 171, and included 46 from measles, 11 from scarlet fever, 30 from whooping-cough, 45 from diphtheria, and 39 from the diarrhoeas of childhood. These deaths collectively are 57 fewer than in the previous month, 67 fewer than the mean of the three preceding months, and 40 fewer than in November of last year. Compared with the numbers for the previous month, deaths from measles are 15 more, and from diphtheria 7 more, while those from scarlet fever number the same, and those from whooping-cough are 22 fewer, and from the diarrhoeas of childhood 51 fewer. No deaths were registered during the month as due to enteric fever. The monthly death-rate from these causes was 0·9 per thousand, being 0·2 less than in the previous month, 0·3 less than the mean of the three preceding months, and 0·2 less than in November of last year. This rate ranged from 5·2 in Coatbridge, 3·9 in Falkirk, and 1·9 in Hamilton, to 0·0 in Perth and in Kirkcaldy.

Deaths from pneumonia numbered 237, being 79 more than in the previous month. Those from bronchitis numbered 194, being 51 more than in the previous month.

Deaths from all forms of tuberculosis numbered 253, of which 163 were ascribed to phthisis. The former are 9 more than in the previous month, but 37 fewer than in November of last year. The latter are 14 fewer than in the previous month, and 22 fewer than in November of last year.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
 by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
 Meteorological Society.

NOVEMBER 1917.

Mean barometric pressure, 29·871 in.; greater than the average of 1881-1915 by 0·050 in.

Mean temperature, 45°·2; greater by 2°·9.

Mean daily range of temperature, 9°·3; less by 0°·5.

Rain, number of days, 19; greater by 2 days.

Rain, depth in inches, 4·88; greater by 1·52 in.

Wind, direction of: an 8 days' excess of winds from between S. and W.

Hence the month was characterised by a somewhat high mean pressure; a very high mean temperature, with a slightly low mean daily range; a very high mean rainfall; and a large excess of south-westerly winds.

From about 3rd to 9th and from 20th onwards conditions were of a very unsettled type, with specially rapid fluctuations of pressure on 25th and 26th. The mean for the month was 29·871 in., or 0·050 in. above the normal. At Leith, at sea-level, pressure reached 30 in. from 2nd to 4th, from 12th to 20th, on 22nd, and on 26th, the extremes there being 30·40 in. on 18th and 29·03 in. on 9th.

For the first ten days or so temperature was rather low to moderate, whilst during the second half of the month abnormally mild conditions were interrupted only by a rather sharp touch of cold around 25th. From this there was a very rapid recovery, and at the end of the month the nights were notably mild except in northern districts. The lowest reading for the month was 23° at Eskdalemuir on 26th, and only rarely has temperature failed to fall to some lower level in the month of November. For the chief towns the mean was 45°·2, or 2°·9 above the normal, and decidedly higher than that for the very cold month of October; the days were 2°·6 and the nights 3°·1 above their respective averages; and the extremes were 60° at Perth on 21st and at Aberdeen on 28th, and 27° at Perth on 25th.

Towards the south-east rainfall was somewhat below the normal; but in north, and even more so in west, aggregates showed, as in October, a very large excess, and various places had at least twice the average. At Rothesay (10·44 in.) the month appears to have been the wettest November for at least 100 years; at Poltalloch it was the wettest for at least 50 years; and at Glenquoich (27·41 in.) the wettest for at least 40 years. Heavy rains were general on night of 5th,—as much as 2 in. at Kilmarnock; but from 7th to 23rd there were few falls of importance outside northern and north-western districts. On 23rd Glenquoich had about 2 $\frac{3}{4}$ in., and from 26th to 30th conditions were extremely unsettled with abnormally heavy falls in west and north-west. At Ardtornish and at Ford (Loch Awe) more than 3 in. fell on 26th; at Greenock more than 2 in. on 28th; and at Glenquoich there was a five days' aggregate of as much as 13·77 in., of which no less than 4·67 in. fell on 28th. Elsewhere various places had falls of 1 in. or more on both 28th and 29th. In some eastern and south-western districts, on the other hand, falls on these days were quite unimportant. The mean for the chief towns was 4·88 in., or 45 per cent. above the normal.

Wind reached gale force at times between 5th and 7th, and from 23rd onwards very stormy weather prevailed. There was snow here and there around 6th, and from 24th to 26th a passing touch of wintry weather and moderate snowfalls, which quickly disappeared. Flooding occurred in places on 6th, and to a serious degree in the Beauly district and elsewhere at the end of the month.

A thunderstorm occurred at Greenock and elsewhere on evening of 24th.

Sunshine varied considerably,—deficient towards the south-east, but fully equal to the normal at Aberdeen and Glasgow.

Aurora was observed in Shetland, Orkney, and at Aberdeen on 12th; and in Shetland again on 13th.

NOTE.—For meteorological table see p. 88.

*Abstract.*TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, NOVEMBER 1917.

TOWNS.	POPULATION.		BIRTHS.					MARRIAGES.	DEATHS.					
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.		Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW, . .	1,008,487	1,115,800	934	841	1775	1633	142	615	584	575	1159	90	41	1110
EDINBURGH, . .	320,769	331,800	197	190	387	326	61	221	189	165	354	60	33	327
DUNDEE, . .	176,085	184,300	103	83	186	163	23	90	73	114	187	8	7	186
ABERDEEN, . .	163,891	165,700	124	112	236	196	40	95	95	96	191	22	7	176
PAISLEY, . .	84,455	89,700	65	66	131	124	7	45	48	29	77	0	3	80
LEITH, . .	80,601	82,800	55	67	122	113	9	50	36	29	65	7	16	74
GREENOCK, . .	75,140	79,600	91	58	149	141	8	38	54	37	91	9	1	83
PERTH, . .	35,854	35,400	25	22	47	40	7	16	17	13	30	10	2	22
TOTAL . . (Eight Towns)	1,945,282	2,085,100	1594	1439	3033	2736	297	1170	1096	1058	2154	206	110	2058
COATBRIDGE, . .	43,290	44,300	43	56	99	92	7	13	32	25	57	2	3	58
MOTHERWELL . .	40,380	42,000	57	49	106	104	2	9	19	14	33	0	1	34
KIRKCALDY . .	39,601	40,900	31	33	64	59	5	17	18	23	41	0	5	46
HAMILTON, . .	38,644	38,600	31	47	78	74	4	14	18	18	36	1	5	40
CLYDEBANK, . .	37,548	46,700	40	35	75	75	0	15	18	16	34	2	7	39
KILMARNOCK, . .	34,728	37,000	19	24	43	39	4	17	16	18	34	3	2	33
FALKIRK, . .	33,574	34,100	27	18	45	41	4	9	21	20	41	0	4	45
AYR, . .	32,986	33,100	25	19	44	39	5	20	20	21	41	8	4	37
TOTAL . . (Sixteen Towns)	2,246,033	2,401,800	1867	1720	3587	3259	328	1284	1258	1213	2471	222	141	2390

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, NOVEMBER 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popu- lation.	DEATH-RATES PER 1000 OF POPULATION FROM					DEATHS UNDER ONE YEAR OF AGE.		
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.	Number.	* Rate per 1000 Births.
				Uncor- rected.	Cor- rected.						
GLASGOW, . .	19·4	8·0	6·7	12·6	12·1	0·7	1·2	0·8	3·0	224	109
EDINBURGH, . .	14·2	15·8	8·1	13·0	12·0	0·7	1·5	1·1	1·7	47	107
DUNDEE, . .	12·3	12·4	5·9	12·3	12·3	0·7	1·4	1·0	1·3	24	98
ABERDEEN, . .	17·3	16·9	7·0	14·0	12·9	0·8	0·8	0·5	2·1	27	108
PAISLEY, . .	17·8	5·3	6·1	10·4	10·9	0·7	0·8	0·5	2·0	16	108
LEITH, . .	17·9	7·4	7·3	9·5	10·9	0·9	1·6	0·6	2·2	16	124
GREENOCK, . .	22·8	5·4	5·8	13·9	12·7	1·5	2·1	0·9	1·2	14	80
PERTH, . .	16·2	14·9	5·5	10·3	7·6	0·0	1·0	0·7	1·0	2	47
TOTAL . . (Eight Towns)	17·7	9·8	6·8	12·6	12·0	0·7	1·3	0·8	2·4	370	107
COATBRIDGE, . .	27·2	7·1	3·6	15·7	15·9	5·2	2·5	1·6	2·2	11	115
MOTHERWELL, . .	30·7	1·9	2·6	9·5	9·8	1·2	0·3	0·3	3·8	9	100
KIRKCALDY, . .	19·0	7·8	5·1	12·2	13·7	0·0	1·5	1·2	1·8	2	36
HAMILTON, . .	24·6	5·1	4·4	11·3	12·6	1·9	0·6	0·3	2·8	7	86
CLYDEBANK, . .	19·6	0·0	3·9	8·9	10·2	1·0	0·5	0·3	1·3	7	73
KILMARNOCK, . .	14·1	9·3	5·6	11·2	10·8	0·7	2·0	0·7	1·0	4	71
FALKIRK, . .	16·1	8·9	3·2	14·6	16·1	3·9	2·5	1·8	1·1	6	118
AYR, . .	16·2	11·4	7·3	15·1	13·6	0·7	1·1	0·0	2·8	4	69
TOTAL . . (Sixteen Towns)	18·2	9·1	6·5	12·5	12·1	0·9	1·3	0·8	2·4	420	103

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR NOVEMBER 1917, and for the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL TOWNS.

MONTH.	Birth-Rate. (2)	Illegitimate Birth- rate per 100 Births. (3)	Marriage-Rate. (4)	Death-Rate. (5)	DEATHS FROM								* Infantile Mortality Rate. (13)	Mean Temperature (Eight Towns only.) (14)
					Enteric Fever. (6)	Smallpox. (7)	Measles. (8)	Scarlet Fever. (9)	Whooping- Cough. (10)	Diphtheria and Croup. (11)	Diarrhoea (Under 2 Years). (12)			
(1)														
NOV. 1917, .	18·2	9·1	6·5	12·1	0	0	46	11	30	45	39	103	45°·2	
NOV. 1916, .	21·2	7·3	6·5	14·4	10	0	58	16	18	36	73	107	44°·5	
NOV. 1915, .	21·3	6·7	11·6	20·0	8	0	66	57	14	55	78	142	36°·7	
NOV. 1914, .	25·0	7·9	7·7	16·8	14	0	16	75	71	62	79	125	43°·1	
NOV. 1913, .	22·6	7·1	6·8	15·0	6	0	116	36	19	46	74	128	45°·3	
NOV. 1912, .	24·6	6·3	6·1	16·5	15	4	12	16	44	34	50	152	42°·4	
NOV. 1911, .	23·9	7·5	6·5	17·0	6	0	100	18	25	46	55	152	41°·5	
NOV. 1910, .	24·9	7·7	6·3	17·2	11	0	7	28	44	54	67	115	36°·7	
NOV. 1909, .	25·4	8·0	7·0	21·9	9	0	157	33	45	43	46	165	39°·0	
NOV. 1908, .	24·6	7·2	6·6	18·0	16	0	6	33	57	37	-	133	44°·2	
NOV. 1907, .	26·3	6·7	6·8	18·1	8	0	147	12	63	28	-	139	42°·2	

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—November 1917.

CAUSES OF DEATH.	All Ages.	Age.												
		-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-		
Enteric Fever	-	-	-	-	-	-	-	-	-	-	-	-	-	
Typhus Fever	-	-	-	-	-	-	-	-	-	-	-	-	-	
Small-pox	-	-	-	-	-	-	-	-	-	-	-	-	-	
Measles	-	-	-	-	-	46	11	29	6	-	-	-	-	
Scarlet Fever	-	-	-	-	-	11	-	6	2	2	-	-	-	
Whooping-cough	-	-	-	-	-	30	13	17	-	-	-	-	-	
Diphtheria and Croup	-	-	-	-	-	45	4	31	9	-	1	-	-	
Influenza	-	-	-	-	-	7	-	-	-	-	-	1	4	
Erysipelas	-	-	-	-	-	12	1	-	-	2	-	3	3	
Phthisis, Pulmonary Tuberculosis	-	-	-	-	-	163	4	5	1	5	32	25	13	
Tuberculous Meningitis	-	-	-	-	-	37	7	19	4	4	1	-	-	
Abdominal Tuberculosis	-	-	-	-	-	26	4	9	4	2	2	-	-	
Other Tuberculous Diseases	-	-	-	-	-	27	2	6	2	4	1	5	4	
Cancer, Malignant Disease	-	-	-	-	-	193	-	-	-	1	6	18	45	
Rheumatic Fever	-	-	-	-	-	6	-	-	2	1	2	-	1	
Meningitis	-	-	-	-	-	29	9	13	1	1	2	1	-	
Organic Heart Disease	-	-	-	-	-	233	-	-	4	1	12	17	27	
Bronchitis	-	-	-	-	-	194	33	16	1	1	3	6	10	
Pneumonia (all forms)	-	-	-	-	-	237	74	53	5	1	6	11	9	
Other Diseases of Respiratory Organs	-	-	-	-	-	35	8	8	1	1	1	3	4	
Diarrhoea and Enteritis (under 2 years)	-	-	-	-	-	39	33	6	-	-	-	-	-	
Appendicitis and Typhlitis	-	-	-	-	-	16	-	-	2	2	-	3	-	
All Liver Diseases (not Malignant)	-	-	-	-	-	16	-	-	4	2	3	2	-	
Other Diseases of Digestive System	-	-	-	-	-	91	13	11	4	2	3	2	1	
Nephritis and Bright's Disease	-	-	-	-	-	81	1	3	1	4	4	10	18	
Puerperal Sepsis	-	-	-	-	-	6	-	-	-	1	1	-	16	
Other Diseases & Accidents of Pregnancy & Parturition	-	-	-	-	-	16	-	-	-	4	3	-	7	
Congenital Debility and Malformation, including Pre-mature Birth	-	-	-	-	-	148	148	-	-	-	-	-	-	
Violent Deaths, excluding Suicide	-	-	-	-	-	79	4	10	11	4	4	5	10	
Suicide	-	-	-	-	-	6	-	-	-	2	1	1	2	
Other Defined Diseases	-	-	-	-	-	511	46	13	4	5	15	20	35	
Diseases Ill-defined or Unknown	-	-	-	-	-	50	5	2	-	2	4	6	16	
All Causes	-	-	-	-	-	23·0	420	257	64	43	99	129	164	248
												330	350	286

DEATHS IN EACH TOWN (corrected for Transfers)—November 1917.

CAUSES OF DEATH.		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever		...	...	...	...	...	...	...	...
Typhus Fever		...	...	...	...	...	...	...	...
Small-pox		...	...	...	...	...	...	...	...
Measles		11	1	2	1	...	1	4	1
Scarlet Fever		...	4	2	1	4	1	1	4
Whooping-cough		13	3	...	1	1	1	...	...
Diphtheria and Croup		21	8	4	2	1	1	...	...
Influenza		2	2	1	1	1	...	...	...
Erysipelas		2	2	1	2	...	1	...	1
Phthisis, Pulmonary Tuberculosis		76	29	15	7	4	4	6	2
Tuberculous Meningitis		15	6	2	2	1	3	2	...
Abdominal Tuberculosis		7	3	2	2	1	2	4	...
Other Tuberculous Diseases		14	2	2	...	...	2	2	1
Cancer, Malignant Disease		81	27	23	17	8	8	8	2
Rheumatic Fever		2	...	...	2	...	...	1	...
Meningitis		17	5	2	1	1	...	...	...
Organic Heart Disease		87	43	28	21	6	5	6	3
Bronchitis		109	18	7	12	11	7	1	2
Pneumonia (all forms)		145	25	10	14	4	7	5	1
Other Diseases of Respiratory Organs		19	4	3	3	...	1	2	...
Diarrhoea and Enteritis (under 2 years)		17	3	4	5	...	2	1	...
Appendicitis and Typhlitis		8	3	1	1	2	...	...	...
All Liver Diseases (not Malignant)		8	2	2	1	1	...	...	...
Other Diseases of Digestive System		40	16	9	5	3	2	1	1
Nephritis and Bright's Disease		46	10	6	2	1	2	5	1
Puerperal Sepsis		3	...	...	2	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition		10	...	...	1	1	1	1	...
Congenital Debility and Malformation, including Premature Birth		68	17	8	11	9	4	5	2
Violent Deaths, excluding Suicide		40	11	7	4	2	3	2	...
Suicide		2	1	1	2	...	...	...	...
Other Defined Diseases		223	78	42	48	19	14	17	5
Diseases Ill-defined or Unknown		24	4	4	4	...	2	5	1
All Causes		1110	327	186	176	80	74	83	22
AGE AT DEATH.									
Under 1	...	224	47	24	27	16	16	14	2
1-4	...	120	25	14	16	9	8	9	1
5-9	...	28	7	4	3	4	...	2	...
10-14	...	22	7	2	3	1	2	2	...
15-24	...	51	14	8	3	1	5	5	1
25-34	...	62	9	8	9	4	4	8	1
35-44	...	88	26	16	11	1	3	4	2
45-54	...	107	41	24	13	8	6	12	1
55-64	...	160	48	27	22	9	10	16	2
65-74	...	148	52	30	34	19	9	6	6
75 and over	...	100	51	29	35	8	11	5	6
All Ages		1110	327	186	176	80	74	83	22

DEATHS IN EACH TOWN (corrected for Transfers)—November 1917—*continued.*

		CAUSES OF DEATH.								
		Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.	
Enteric Fever	...	...	...	...	...	...	...	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...
Measles	...	16	...	...	2	2	...	...	7
Scarlet Fever	...	...	2	...	...	...	...	1	1
Whooping-cough	...	...	2	...	...	...	1	2	2
Diphtheria and Croup	...	2	...	...	1	...	1	2	2
Influenza	...	...	...	...	...	...	...	...	...
Erysipelas	...	1	...	...	...	...	1	1	...
Phthisis, Pulmonary Tuberculosis	...	6	1	4	1	1	2	5	...	
Tuberculous Meningitis	...	1	...	1	...	1	1	1	2	
Abdominal Tuberculosis	...	...	...	...	1	1	1	1	1
Other Tuberculous Diseases	...	2	...	...	...	...	2	...	...
Cancer, Malignant Disease	...	...	1	2	2	2	4	3	5
Rheumatic Fever	...	1	...	...	...	...	...	...	...
Meningitis	...	1	...	...	...	2	...	...	...
Organic Heart Disease	...	1	2	11	8	4	3	3	2	
Bronchitis	...	3	6	4	2	1	3	3	5	
Pneumonia (all forms)	...	4	7	2	7	4	...	...	2
Other Diseases of Respiratory Organs	...	1	...	...	...	...	...	...	2
Diarrhoea and Enteritis (under 2 years)	...	1	...	...	3	2	...	1	...
Appendicitis and Typhlitis	...	...	...	...	...	1	...	...	...
All Liver Diseases (not Malignant)	...	1	...	...	...	...	...	...	1
Other Diseases of Digestive System	...	1	3	4	...	1	3	...	2	
Nephritis and Bright's Disease	...	2	1	1	1	1	...	2	...	
Puerperal Sepsis	...	...	...	1	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	1	...	1	...	...	...
Congenital Debility and Malformation, including Premature Birth	...	5	4	1	3	6	2	2	1	
Violent Deaths, excluding Suicide	...	1	1	2	1	2	...	1	2	
Suicide	...	...	...	...	...	...	...	...	...
Other Defined Diseases	...	8	4	11	8	6	8	12	8	
Diseases Ill-defined or Unknown	...	...	...	1	...	2	1	...	2
All Causes		58	34	46	40	39	33	45	37	
AGE AT DEATH.										
Under 1	...	11	9	2	7	7	4	6	4	
1-4	...	15	5	...	4	9	5	14	3	
5-9	...	6	2	3	2	...	1	1	1	
10-14	...	1	...	...	...	3	...	...	...
15-24	...	...	...	1	1	4	1	2	2
25-34	...	5	3	6	2	1	2	2	3	
35-44	...	2	...	2	1	...	3	2	3	
45-54	...	6	2	5	6	6	3	5	3	
55-64	...	4	3	8	6	3	4	3	5	
65-74	...	3	7	8	3	3	7	6	9	
75 and over	...	5	3	11	8	3	3	4	4	
All Ages		58	34	46	40	39	33	45	37	

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,

During the Month of NOVEMBER 1917.

OBSERVERS.	BARO-METER.	AIR TEMPERATURE.				HYGROMETER.		RAIN, AND OTHER FORMS OF PRECIPITATION.				WIND DIRECTIONS.														
		Mean of Maximum (A.).	Mean of Minimum (B.).	Absolute Maximum and Minimum.		Mean at 9 A.M. and 9 P.M.	Number of Days.	Number of Observations at 9 A.M. and 9 P.M.				Calm or Variable.														
				Day of Month.	Minimum.			N	NE	E	SE	S	SW	W	NW											
GLASGOW, JAMES CONNELL, The Observatory.	feet. inch.	*	*	*	*	*	*	17	5.89	+2.25	1	3	2	2	21	4	2									
EDINBURGH. Professor K. A. SAMPSON, F.R.S., Royal Observatory.	184 29.694	29.898	49.2	42.1	45.7	+3.1	55	28th	32	26th	45.6	1.8	.266	.87	16	2.00	-0.16	3	1	3	2	22	3	3		
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	441 29.389	29.874	49.5	41.5	45.5	+3.3	56	21st	30	26th	45.3	2.2	.252	.84	17	3.09	+0.65	1	3	1	3	0	37	1	14	0
ABERDEEN.* The Meteorological Office.	164 29.657	29.839	49.5	38.8	44.2	+2.9	57	21, 27, 28	30	26th	43.6	1.4	.252	.89	19	3.59	+0.64	2	2	0	1	7	16	16	9	7
PAISLEY, The Coats Observatory.	90 29.706	29.808	50.1	38.4	44.3	+2.2	60	28th	31	26, 27	43.6	1.5	.250	.88	20	7.87	+3.69	4	0	3	0	3	8	33	4	5
LEITH,† JAMES BOLAM, Navigation School.	107 29.781	29.901	49.8	42.0	45.9	+2.9	55	16, 21	32	1, 25 26	46.1	1.7	.273	.88	15	1.83	-0.41	2	2	0	26	12	12	12	2	2
GREENOCK,† DANIEL MACALISTER, C.E., Greenock Waterworks.	76 29.805	29.890	50.6	41.2	45.9	+2.6	56	21st	32	26th	46.2	1.8	.272	.83	17	1.88	-0.41	2	2	0	26	12	12	12	2	2
PERTH, HENRY COATES, F.R.S.E.,	233 29.645	29.910	49.4	41.7	45.6	+2.9	54	28, 29	33	25, 26	45.5	1.6	.263	.88	25	11.80	+5.38	0	3	4	1	0	11	34	6	1
Means	170 29.682	29.871	49.8	40.5	45.2	+2.9	45.0	1.8	.259	.87	19	4.88	+1.52	2	2	1	6	21	18	6	3	

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 At 9 A.M. and 6 P.M.

North Latitude.—Glasgow, 55° 51'; Edinburgh, 55° 55'; Dundee, 56° 28'; Aberdeen, 56° 51'; Paisley, 57° 9'; Leith, 55° 51'; Greenock, 55° 57'; Perth, 56° 23'; Mean, 56° 11'.
 West Longitude.—Glasgow, 4° 18'; Edinburgh, 3° 11'; Dundee, 2° 57'; Aberdeen, 2° 7'; Paisley, 4° 18'; Greenock, 4° 46'; Perth, 3° 25'; Mean, 3° 32'.

MONTHLY RETURN
OF THE
BIRTHS, DEATHS, AND MARRIAGES
IN SIXTEEN OF THE PRINCIPAL TOWNS OF
SCOTLAND.

DECEMBER 1917.

Published by Authority of the Registrar-General.

REPORT.

During the month of December 1917 there were registered in the Sixteen Principal Towns of Scotland, those burghs which at the date of the 1911 Census had populations of over 30,000, the births of 3573 living children, of whom 1832 were male and 1741 female. The male children are 35 fewer than in the previous month, and 273 fewer than in December 1916. The female children are 21 more than in the previous month, but 294 fewer than in December 1916. The total children are 14 fewer than in the previous month, 108 fewer than the mean of the numbers for the three preceding months, and 567 fewer than in December 1916. The equivalent annual birth-rate is 17.5 per thousand, being 0.7 below that for the previous month, 0.9 below the mean of the rates for the three preceding months, and 3.1 below that for December 1916. In the individual towns the birth-rate ranged from 27.9 in Coatbridge, 26.0 in Clydebank, and 25.0 in Greenock and in Hamilton, to 11.3 in Perth, 13.1 in Edinburgh, and 13.4 in Dundee. In Motherwell it was 21.0; in Glasgow, 18.6; in Paisley, 18.4; in Leith, 17.8; in Kilmarnock, 17.2; in Ayr, 15.6; in Kirkcaldy, 15.5; in Aberdeen, 14.7; and in Falkirk, 14.2.

Of the 3573 children whose births were registered, 3244, or 90.8 per cent., were legitimate, and 329, or 9.2 per cent., were illegitimate. The illegitimate births are 1 more than in the previous month, but are 8 fewer than the mean of the numbers for the three preceding months, and 23 fewer than in December 1916. The illegitimate rate is 0.1 above that for the previous month, 0.1 above the mean of the rates for the three preceding months, and 0.7 above that for December 1916. In the towns taken individually this rate ranged from 18.4 in Aberdeen, 13.0 in Kilmarnock, and 12.9 in Dundee, to 1.0 in Clydebank, 2.3 in Ayr, and 4.9 in Falkirk. In Edinburgh it was 12.7; in Perth, 11.8; in Kirkcaldy, 11.1; in Leith, 9.6; in Motherwell, 9.3; in Glasgow, 8.2; in Hamilton, 7.3; in Paisley, 7.1; in Greenock, 5.9; and in Coatbridge, 5.7.

Marriages registered in these towns numbered 1927. They are 643 more than in the previous month, 463 more than the mean for the three preceding months, and 123 more than in December 1916. The equivalent annual marriage-rate is 9.4 per thousand, being 2.9 above that for the previous month, 2.1 above the mean for the three preceding months, and 0.4 above that for December 1916. In the individual towns this rate ranged from 11.7 in Aberdeen, 11.4 in Greenock, and 11.3 in Perth, to 4.5 in Clydebank, and 6.7 in Leith and in Kilmarnock. In

Edinburgh it was 10·9 ; in Ayr, 9·9 ; in Hamilton, 9·8 ; in Glasgow, 9·4 ; in Falkirk, 9·3 ; in Kirkcaldy, 9·2 ; in Dundee, 8·4 ; in Coatbridge, 8·2 ; in Motherwell, 7·8 ; and in Paisley, 7·7.

Deaths registered in these towns numbered 2915, of which 1494 were of males, and 1421 of females. These deaths include those of 264 persons with usual residence outwith the town of registration, but they do not include those of 200 persons who, though dying elsewhere in Scotland, had usual residence in one or other of these towns, and the difference, 64, falls to be deducted to get the corrected number of deaths for the month, which is thus found to be 2851. This number is 461 more than in the previous month, and 515 more than the mean of the numbers for the three preceding months, but is 592 less than in December 1916.

The death-rate for the month, corrected, was 14·0 per thousand, being 1·9 above that for the previous month, and 2·3 above the mean of the rates for the three preceding months, but 3·1 below that for December 1916. In the towns taken individually this rate ranged from 27·4 in Coatbridge, 17·0 in Greenock, and 16·9 in Kilmarnock, to 11·7 in Edinburgh, 12·4 in Leith, and 13·1 in Falkirk. In Hamilton it was 16·2 ; in Clydebank, 15·1 ; in Paisley and in Motherwell, 14·8 ; in Kirkcaldy, 14·7 ; in Dundee and in Perth, 14·3 ; in Ayr, 14·2 ; in Glasgow, 13·7 ; and in Aberdeen, 13·5.

Deaths of children of less than one year old numbered 515. They are 95 more than in the previous month, and 104 more than the mean for the three preceding months, but are 59 fewer than in December 1916. They are equal to an infantile mortality rate of 124 per thousand of the average number of births registered monthly in these towns during the past twelve months. This rate is 21 more than in the previous month, 25 more than the mean of the rates for the three preceding months, and 2 more than that for December 1916. In the towns taken individually this rate ranged from 248 in Coatbridge, 210 in Clydebank, and 181 in Hamilton, to 91 in Leith, 96 in Greenock, and 98 in Falkirk. In Motherwell it was 176 ; in Paisley, 163 ; in Ayr, 155 ; in Kilmarnock, 143 ; in Dundee and in Perth, 140 ; in Kirkcaldy, 121 ; in Aberdeen, 115 ; in Glasgow, 113 ; and in Edinburgh, 110.

Deaths from the principal epidemic diseases numbered 228, and included 7 from enteric fever, 64 from measles, 8 from scarlet fever, 54 from whooping-cough, 50 from diphtheria, and 45 from the diarrhoeas of childhood. These deaths collectively are 57 more than in the previous month, 24 more than the mean for the three preceding months, and 45 more than in December 1916. Compared with the numbers for the previous month, deaths from whooping-cough are 24 more, from measles 18 more, from enteric fever 7 more, from the diarrhoeas of childhood 6 more, and from diphtheria 5 more, while those from scarlet fever are 3 fewer. The monthly death-rate from these causes was 1·1 per thousand, being 0·2 above that for the previous month, 0·1 above the mean of the rates for the three preceding months, and 0·2 above that for December 1916. This rate ranged from 8·8 in Coatbridge, due to the prevalence there of measles, 1·8 in Greenock, and 1·7 in Kirkcaldy, to 0·0 in Motherwell, 0·3 in Falkirk, and 0·6 in Leith.

Deaths from pneumonia numbered 294, being 57 more than in the previous month. Deaths from bronchitis numbered 230, being 36 more than in the previous month.

Deaths from all forms of tuberculosis numbered 342, of which 229 were ascribed to phthisis. The former are 89 more than in the previous month, but number the same as in December 1916. The latter are 66 more than in the previous month, but are 16 fewer than in December 1916.

METEOROLOGICAL NOTES for Eight of the Principal Towns,
 by A. WATT, M.A., F.R.S.E., Secretary to the Scottish
 Meteorological Society.

DECEMBER 1917.

Mean barometric pressure, 30·153 in.; greater than the average of 1881-1915 by 0·411 in.

Mean temperature, 37°·0; less by 1°·9.

Mean daily range of temperature, 9°·2; greater by 0°·2.

Rain, number of days, 17; less by 2 days.

Rain, depth in inches, 2·18; less by 1·64 in.

Wind, direction of: a 2 days' excess of winds from between N.W. and N.E.

Hence the month was characterised by an abnormally high mean pressure; a low mean temperature, with a mean daily range practically equal to the normal; a low mean rainfall; and an excess of northerly winds.

At the very beginning of the month there was a rapid rise of pressure from a rather low level, and from 2nd onwards high readings for the most part prevailed, especially during the last ten days or so, when conditions over Scotland were definitely anticyclonic. Around 16th a depression which moved south-eastwards from the west of Ireland influenced all parts of our Islands. The mean for the month was 30·153 in., or 0·411 in. above the normal, and the highest on record for December. At Leith, at sea-level, readings from 2nd onwards fell below 30 in. only from 7th to 9th, and on 14th, 16th and 20th, the extremes there being 30·65 in. on 29th, and 29·35 in. on 1st.

From 2nd to 4th, and again from 10th to 12th, there were incursions of severe cold with northerly winds, whilst from 16th to 23rd very wintry weather prevailed. Outside these periods temperature maintained a fairly high level, and fluctuations were moderate. Lowest readings reported were 5° at Braemar on 22nd (with 0° on a thermometer exposed in the open); and 8° at Balmoral and Braemar on 4th. For the chief towns the mean was 37°·0, or 1°·9 below the normal; the days were 1°·8 and the nights 2°·0 below their respective averages; and the extremes were 52° at Aberdeen, Edinburgh and Greenock on 6th or 7th, and 10° at Perth on 22nd.

Precipitation was much below the normal, and towards the north-east some stations had aggregates of only about 1 in. or less. During the first few days there were some moderate falls, partly consisting of snow—on both 6th and 7th Glenquoich had more than 1 in.—and around the middle of the month conditions were very unsettled. On night of 19th various districts had rather heavy falls, in some places largely accounted for by snow, and at Glasgow the "rainfall equivalent" was fully 1 in. From 21st onwards fair to fine conditions were seldom interrupted, and at Dumfries no precipitation occurred. The mean for the chief towns was 1·64 in., or 43 per cent below the normal.

On 1st and 2nd and between 14th and 17th stormy weather prevailed, with winds from some northerly point. There were considerable falls of snow at the beginning of the month; in some districts on 8th and 9th; very generally around 16th; in various districts on 19th and 20th; and here and there on 25th.

A thunderstorm occurred at Røthesay on 7th; and in Orkney and at a few points in west and north-west on afternoon or evening of 14th.

There was a good deal of gloomy weather, but sunshine aggregates were in general fully equal to the normal. Dense fog occurred in Glasgow on 27th and 28th.

A brilliant aurora was widely observed on night of 16th, and minor displays at Aberdeen on 7th and 8th.

NOTE.—For meteorological table see p. 96.

Abstract.

TABLE I.—ABSTRACT OF BIRTHS, DEATHS, AND MARRIAGES
in the Principal Towns, DECEMBER 1917.

TOWNS.	POPULATION.		BIRTHS.					DEATHS.						
	Census. 1911.	Estimated to middle of 1917.	Males.	Females.	Total.	Legiti- mate.	Illegiti- mate.	MARRIAGES.	Males.	Females.	Total.	Out.	In.	Total Corrected.
GLASGOW, . .	1,008,487	1,115,800	901	859	1760	1615	145	888	699	627	1326	93	65	1298
EDINBURGH, . .	320,769	331,800	183	187	370	323	47	308	183	190	373	80	37	330
DUNDEE, . .	176,085	184,300	109	101	210	183	27	132	105	130	235	16	5	224
ABERDEEN, . .	163,891	165,700	104	103	207	169	38	165	104	110	214	29	5	190
PAISLEY, . .	84,455	89,700	70	70	140	130	10	59	59	54	113	3	3	113
LEITH, . .	80,601	82,800	69	56	125	113	12	47	32	31	63	3	27	87
GREENOCK, . .	75,140	79,600	79	90	169	159	10	77	58	58	116	5	4	115
PERTH, . .	35,854	35,400	15	19	34	30	4	34	30	26	56	13	0	43
TOTAL . . (EIGHT TOWNS)	1,945,282	2,085,100	1530	1485	3015	2722	293	1710	1270	1226	2496	242	146	2400
COATBRIDGE, . .	43,290	44,300	63	42	105	99	6	31	51	45	96	1	8	103
MOTHERWELL . .	40,380	42,000	37	38	75	68	7	28	23	19	42	0	11	53
KIRKCALDY . .	39,601	40,900	31	23	54	48	6	32	23	30	53	6	4	51
HAMILTON, . .	38,644	38,600	47	35	82	76	6	32	21	23	44	1	10	53
CLYDEBANK, . .	37,548	46,700	58	45	103	102	1	18	31	20	51	1	10	60
KILMARNOCK, . .	34,728	37,000	25	29	54	47	7	21	29	26	55	8	6	53
FALKIRK, . .	33,574	34,100	18	23	41	39	2	27	22	14	36	2	4	38
AYR, . .	32,986	33,100	23	21	44	43	1	23	24	18	42	3	1	40
TOTAL . . (SIXTEEN TOWNS)	2,246,033	2,401,800	1832	1741	3573	3244	329	1927	1494	1421	2915	264	200	2851

TABLE II.—BIRTH-RATES, DEATH-RATES, AND MARRIAGE-RATES
in the Principal Towns, DECEMBER 1917.

TOWNS.	Birth- Rate per 1000 of Popu- lation.	Illegiti- mate Birth- Rate per 100 Births.	Marriage- Rate per 1000 of Popula- tion.	DEATH-RATES PER 1000 of POPULATION FROM					DEATHS UNDER ONE YEAR OF AGE.		
				All Causes.		Principal Epidemic Diseases.	Tuber- culosis.	Phthisis.	All Re- spiratory Diseases.	Number.	* Rate per 1000 Births.
				Uncor- rected.	Cor- rected.						
GLASGOW, . .	18·6	8·2	9·4	14·0	13·7	0·9	1·8	1·2	3·0	236	113
EDINBURGH, . .	13·1	12·7	10·9	13·2	11·7	0·7	1·5	1·0	1·6	49	110
DUNDEE, . .	13·4	12·9	8·4	15·0	14·3	1·1	1·6	1·1	2·7	35	140
ABERDEEN, . .	14·7	18·4	11·7	15·2	13·5	1·4	1·2	0·6	2·0	29	115
PAISLEY, . .	18·4	7·1	7·7	14·8	14·8	0·7	2·0	1·4	3·9	25	163
LEITH, . .	17·8	9·6	6·7	9·0	12·4	0·6	1·7	1·6	2·3	12	91
GREENOCK, . .	25·0	5·9	11·4	17·2	17·0	1·8	1·6	1·2	3·6	17	96
PERTH, . .	11·3	11·8	11·3	18·7	14·3	1·0	2·7	1·7	1·0	6	140
TOTAL . . (EIGHT TOWNS)	17·0	9·7	9·7	14·1	13·6	1·0	1·7	1·2	2·7	409	115
COATBRIDGE, . .	27·9	5·7	8·2	25·5	27·4	8·8	4·3	2·4	4·3	25	248
MOTHERWELL, . .	21·0	9·3	7·8	11·8	14·8	0·0	1·4	0·8	3·4	16	176
KIRKCALDY, . .	15·5	11·1	9·2	15·3	14·7	1·7	0·0	0·0	3·7	7	121
HAMILTON, . .	25·0	7·3	9·8	13·4	16·2	1·5	1·5	0·6	3·7	15	181
CLYDEBANK, . .	26·0	1·0	4·5	12·9	15·1	1·3	0·8	0·8	5·0	21	210
KILMARNOCK, . .	17·2	13·0	6·7	17·5	16·9	1·6	0·6	0·3	1·6	8	143
FALKIRK, . .	14·2	4·9	9·3	12·4	13·1	0·3	2·4	1·7	2·8	5	98
AYR, . .	15·6	2·3	9·9	14·9	14·2	1·1	1·4	0·7	5·0	9	155
TOTAL . . (SIXTEEN TOWNS)	17·5	9·2	9·4	14·3	14·0	1·1	1·7	1·1	2·8	515	124

* Based on the average number of births registered monthly during the past 12 months.

TABLE III.—BIRTH-RATE, DEATH-RATE, ETC., FOR DECEMBER 1917, and for the Corresponding Month of the Preceding Ten Years, in the PRINCIPAL TOWNS.

MONTH.	Birth-Rate (2)	Illegitimate Birth-rate per 100 Births. (3)	Marriage-Rate. (4)	Death-Rate. (5)	DEATHS FROM									*Infantile Mortality Rate. (13)	Mean Temperature. (Eight Towns only.) (14)
					Enteric Fever. (6)	Smallpox. (7)	Measles. (8)	Scarlet Fever. (9)	Whooping-Cough. (10)	Diphtheria and Croup. (11)	Diarrhoea (Under 2 Years). (12)				
(1)															
DEC. 1917, .	17·5	9·2	9·4	14·0	7	0	64	8	54	50	45	124	37°·0		
DEC. 1916, .	20·6	8·5	9·0	17·1	5	0	51	14	34	25	54	122	37°·7		
DEC. 1915, .	22·7	6·9	11·0	19·2	3	0	106	73	17	65	56	126	38°·0		
DEC. 1914, .	25·4	7·0	9·9	18·7	11	0	19	71	156	66	60	147	37°·9		
DEC. 1913, .	27·0	6·9	10·4	17·9	6	0	184	45	26	62	56	157	39°·8		
DEC. 1912, .	26·1	7·8	11·5	19·7	5	2	20	22	108	33	57	166	41°·3		
DEC. 1911, .	23·3	8·0	9·8	17·1	10	0	133	15	41	41	32	133	41°·5		
DEC. 1910, .	25·3	7·8	9·0	17·2	7	0	5	27	43	57	37	125	42°·3		
DEC. 1909, .	25·6	7·8	8·3	23·1	16	0	233	30	48	39	33	178	36°·5		
DEC. 1908, .	25·9	6·4	8·8	17·7	6	0	5	15	96	36	-	116	39°·5		
DEC. 1907, .	27·2	6·9	11·1	21·6	13	1	280	18	97	41	-	169	39°·0		

For all years up to and including 1911, figures are for Eight only of the Principal Towns.

Figures in Columns 5-13 have, for 1913 and subsequent years, been corrected for non-resident deaths.

* Per 1000 of the average number of births registered monthly during the past 12 months.

AGGREGATE OF THE SIXTEEN PRINCIPAL TOWNS—December 1917.

CAUSES OF DEATH.	All Ages.	Age.														
		-1	1-	5-	10-	15-	25-	35-	45-	55-	65-	75-				
Enteric Fever	—	—	—	—	—	—	—	—	—	—	—	—	—			
Chyphus Fever	—	—	—	—	—	—	—	—	—	—	—	—	—			
Small-pox	—	—	—	—	—	—	—	—	—	—	—	—	—			
Measles	—	—	—	—	—	—	—	—	—	—	—	—	—			
Scarlet Fever	—	—	—	—	—	—	—	—	—	—	—	—	—			
Whooping-cough	—	—	—	—	—	—	—	—	—	—	—	—	—			
Diphtheria and Croup	—	—	—	—	—	—	—	—	—	—	—	—	—			
Influenza	—	—	—	—	—	—	—	—	—	—	—	—	—			
Erysipelas	—	—	—	—	—	—	—	—	—	—	—	—	—			
Phtisis, Pulmonary Tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Tuberculous Meningitis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Abdominal Tuberculosis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Tuberculous Diseases	—	—	—	—	—	—	—	—	—	—	—	—	—			
Cancer, Malignant Disease	—	—	—	—	—	—	—	—	—	—	—	—	—			
Rheumatic Fever	—	—	—	—	—	—	—	—	—	—	—	—	—			
Meningitis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Organic Heart Disease	—	—	—	—	—	—	—	—	—	—	—	—	—			
Bronchitis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Pneumonia (all forms)	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Diseases of Respiratory Organs	—	—	—	—	—	—	—	—	—	—	—	—	—			
Diarrhoea and Enteritis (under 2 years)	—	—	—	—	—	—	—	—	—	—	—	—	—			
Appendicitis and Typhilitis	—	—	—	—	—	—	—	—	—	—	—	—	—			
All Liver Diseases (not Malignant)	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Diseases of Digestive System	—	—	—	—	—	—	—	—	—	—	—	—	—			
Nephritis and Bright's Disease	—	—	—	—	—	—	—	—	—	—	—	—	—			
Puerperal Sepsis	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Diseases & Accidents of Pregnancy & Parturition	—	—	—	—	—	—	—	—	—	—	—	—	—			
Congenital Debility and Malformation, including Pre-mature Birth	—	—	—	—	—	—	—	—	—	—	—	—	—			
Violent Deaths, excluding Suicide	—	—	—	—	—	—	—	—	—	—	—	—	—			
Suicide	—	—	—	—	—	—	—	—	—	—	—	—	—			
Other Defined Diseases	—	—	—	—	—	—	—	—	—	—	—	—	—			
Diseases Ill-defined or Unknown	—	—	—	—	—	—	—	—	—	—	—	—	—			
All Causes	—	—	—	—	2851	515	315	80	48	144	130	212	286	877	422	322

Causes of Death

DEATHS IN EACH TOWN (corrected for Transfers)—December 1917.

CAUSES OF DEATH.		Glasgow.	Edinburgh.	Dundee.	Aberdeen.	Paisley.	Leith.	Greenock.	Perth.
Enteric Fever		3	1	...	1	...	...	1	...
Typhus Fever		...	...	...	...	...	...	...	...
Small-pox		...	...	...	...	...	...	...	...
Measles		12	1	...	5	...	1	9	...
Scarlet Fever		1	3	...	1	...	1	...	...
Whooping-cough		30	1	5	5	3	1	1	1
Diphtheria and Croup		22	8	8	3	1	1	1	2
Influenza		2	1	2	1	...	...	...	...
Erysipelas		1	2	...	...	...	...	...	1
Phthisis, Pulmonary Tuberculosis		116	27	17	9	11	11	8	5
Tuberculous Meningitis		23	3	4	3	...	1	2	1
Abdominal Tuberculosis		9	4	...	1	1	...	1	2
Other Tuberculous Diseases		22	8	4	4	3	...	...	...
Cancer, Malignant Disease		94	24	20	21	11	11	6	3
Rheumatic Fever		2	2	...	1	...	...	...	...
Meningitis		13	4	3	2	...	...	2	...
Organic Heart Disease		96	35	23	21	4	9	7	11
Bronchitis		105	22	19	8	18	5	5	1
Pneumonia (all forms)		152	19	19	17	10	9	17	2
Other Diseases of Respiratory Organs		27	3	5	3	2	2	2	...
Diarrhoea and Enteritis (under 2 years)		21	5	5	5	1	...	...	...
Appendicitis and Typhlitis		13	...	...	3	...	1	2	...
All Liver Diseases (not Malignant)		6	1	2	1	...	...	1	...
Other Diseases of Digestive System		45	11	9	7	8	2	1	2
Nephritis and Bright's Disease		49	11	4	3	1	4	4	1
Puerperal Sepsis		4	...	1	...	...	...	1	...
Other Diseases and Accidents of Pregnancy and Parturition		7	1	1	1	...	...	1	...
Congenital Debility and Malformation, including Premature Birth		69	21	11	12	3	3	7	2
Violent Deaths, excluding Suicide		53	11	4	5	4	8	7	...
Suicide		3	1	2	2	...	...	1	...
Other Defined Diseases		256	95	55	39	31	16	24	8
Diseases Ill-defined or Unknown		42	5	1	6	1	1	4	1
All Causes		1298	330	224	190	113	87	115	43
AGE AT DEATH.									
Under 1		236	49	35	29	25	12	17	6
1- 4		138	19	23	23	14	7	20	...
5- 9		39	7	9	6	1	...	2	2
10-14		21	4	3	2	1	3	4	1
15-24		72	17	13	6	7	2	5	1
25-34		68	12	10	9	2	4	7	1
35-44		97	27	17	12	10	8	5	4
45-54		142	36	21	15	9	11	13	6
55-64		186	40	27	21	20	14	12	5
65-74		184	63	39	30	15	17	12	6
75 and over		115	56	27	37	9	9	18	11
All Ages		1298	330	224	190	113	87	115	43

DEATHS IN EACH TOWN (corrected for Transfers)—December 1917—continued.

CAUSES OF DEATH.

		Coatbridge.	Motherwell.	Kirkcaldy.	Hamilton.	Clydebank.	Kilmarnock.	Falkirk.	Ayr.
Enteric Fever	...	...	...	...	...	...	1	...	...
Typhus Fever	...	...	...	...	...	...	...	...	...
Small-pox	...	...	...	...	...	...	...	...	...
Measles	...	...	...	...	1	4	...	...	1
Scarlet Fever	...	...	...	...	...	1	...	...	1
Whooping-cough	...	...	4	1	...	...	1	...	1
Diphtheria and Croup	...	...	2	...	...	...	...	1	1
Influenza	...	...	1	...	...	...	...	...	...
Erysipelas	...	...	...	...	...	...	...	5	2
Phthisis, Pulmonary Tuberculosis	...	9	3	...	2	3	1	...	...
Tuberculous Meningitis	...	3	...	...	1	...	1	...	...
Abdominal Tuberculosis	...	1	1	...	1	...	...	...	1
Other Tuberculous Diseases	...	3	1	...	1	...	...	2	1
Cancer, Malignant Disease	...	2	3	2	4	...	6	1	4
Rheumatic Fever	...	...	...	...	...	...	...	...	...
Meningitis	...	3	...	...	2	2	...	5	2
Organic Heart Disease	...	9	4	5	5	5	2	...	2
Bronchitis	...	6	7	8	7	6	2	2	9
Pneumonia (all forms)	...	8	5	5	5	13	3	6	4
Other Diseases of Respiratory Organs	2	...	...	...	3	1	...	...	1
Diarrhoea and Enteritis (under 2 years)	2	...	...	...	1	...	3	...	...
Appendicitis and Typhlitis	...	...	...	...	...	...	...	...	...
All Liver Diseases (not Malignant)	...	...	...	...	...	...	...	...	...
Other Diseases of Digestive System	...	1	3	2	1	2	6	1	...
Nephritis and Bright's Disease	...	2	3	4	1	1	1	...	...
Puerperal Sepsis	...	...	1	...	...	...	...	...	...
Other Diseases and Accidents of Pregnancy and Parturition	...	...	...	...	...	2	...	...	...
Congenital Debility and Malformation, including Premature Birth	...	8	7	...	1	6	4	2	6
Violent Deaths, excluding Suicide	...	3	4	1	3	1	1	...	1
Suicide	...	...	...	...	...	...	...	...	...
Other Defined Diseases	...	9	11	16	12	12	15	13	5
Diseases Ill-defined or Unknown	...	1	...	1	1	1	6	...	1
All Causes	...	103	53	51	53	60	53	38	40
AGE AT DEATH.									
Under 1	...	25	16	7	15	21	8	5	9
1-4	...	35	2	8	6	8	6	2	4
5-9	...	5	2	1	1	3	...	1	1
10-14	...	...	1	1	3	2	2	...	...
15-24	...	5	2	...	3	2	...	5	4
25-34	...	4	1	2	...	3	1	2	4
35-44	...	6	7	2	5	4	4	3	1
45-54	...	5	5	5	5	4	4	1	4
55-64	...	8	9	6	5	5	6	8	5
65-74	...	6	6	9	4	3	16	7	5
75 and over	...	4	2	10	6	5	6	4	3
All Ages	...	103	53	51	53	60	53	38	40

ABSTRACT OF METEOROLOGICAL OBSERVATIONS

Made at GLASGOW, EDINBURGH, DUNDEE, ABERDEEN, PAISLEY, LEITH, GREENOCK, and PERTH,

During the Month of DECEMBER 1917.

OBSERVERS.	BARO-METER. at Sea-Level and 32°.	AIR TEMPERATURE.			HYGROMETER.			RAIN, AND OTHER FORMS OF PRE- CIPITATION.			WIND DIRECTIONS.								
		Mean of A and B (Mean Tem- perature).	Absolute Maximum and Minimum.		Mean at 9 A.M. and 9 P.M.	Number of Days.			Difference from Average.	Number of Observations at 9 A.M. and 9 P.M.									
			Maximum (A).	Minimum (B.)		Day of Month.	Total Fall.			N	NE	E	SE	S	SW	W	NW		
							Dry Bulb.	Vapour Pressure.											
GLASGOW, JAMES CONNELL, The Observatory.	feet. 184 29.971 30.179	inch. 33.4 37.5 -2.0	° 51 7th	° 24 22nd	37.1 1.4 '194 88	° 2.78 -1.37	5 6 3 0 4 12 20 9 3												
EDINBURGH, Professor R. A. SAMPSON, F.R.S., Royal Observatory.	441 29.658 30.156	42.5 32.7	37.6 -1.3	52 7th	22 22nd	37.0 1.8 '186 85	1.71 '0.45 5 5	15 4 1 5 14 15 8 5											
DUNDEE, ALEX. MACRAE, Curator of Cemeteries.	164 29.949 30.136	40.2 30.9	35.6 -2.0	51 1, 6	21 4, 22	35.5 1.0 '189 91	1.19 -1.47 0 12 0 1 0 30 2 17 0												
ABERDEEN,* The Meteorological Office.	90 29.991 30.094	41.3 32.9	37.1 -1.6	52 6th	21 5th	37.3 1.3 '197 89	1.26 -1.96 6 2 1 0 0 6 13 17 15 2												
PAISLEY, The Coats Observatory.	107 30.067 30.189	42.3 32.3	37.3 -2.6	51 13	6, 7 20 21st	37.2 1.4 '194 87	3.21 -1.84 5 0 8 0 2 5 23 2 17												
LEITH,† JAMES BOLAM, Navigation School.	76 30.075 30.161	41.6 33.5	37.6 -2.3	51 6th	23 22nd	37.6 1.9 '190 84	1.74 -0.46 6 6 4 0 0 2 10 24 10 0												
GREENOCK,† DANIEL MACALISTER, C.E., Greenock Waterworks.	233 29.912 30.182	41.8 34.0	37.9 -1.5	52 6th	26 22nd	37.6 1.5 '196 87	3.68 -4.21 0 5 8 0 0 9 25 13 2												
PERTH, HENRY COATES, F.R.S.E.,	62 30.053 30.123	(?) 41.5 29.5	35.5 -2.0	(?) 10	22nd	34.2 1.0 '178 89	1.89 -1.34 2 0 1 4 7 27 7 13 1												
Means	170 29.960 30.153	41.6 32.4 37.0 -1.9 36.7 1.4 '191 88	17 2.18 -1.64 4 4 1 3 15 16 11 4																

North Latitude.—Glasgow, 55° 51'; Edinburgh, 55° 55'; Dundee, 56° 28'; Aberdeen, 57° 9'; Paisley, 56° 58'; Leith, 56° 51'; Greenock, 55° 57'; Perth, 56° 23'; Mean, 56° 11'. West Longitude.—Glasgow, 4° 18'; Edinburgh, 3° 11'; Dundee, 2° 7'; Aberdeen, 2° 57'; Paisley, 4° 27'; Leith, 3° 8'; Greenock, 4° 46'; Perth, 3° 25'; Mean, 3° 32'.

* At King's College, at 7 A.M. and 6 P.M.
† At 9 A.M. and 9 P.M.

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